



Service Manual

Nakamichi TD-700 TD-700E TD-700D

Mobile Tuner/Cassette Deck



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1. GENERAL

1.1. Packing Materials, Owner's Manual and Auxiliary Parts

Part No.	Description	Q'ty
0F03845A	Outer Carton TD-700	1
0F03853A	Outer Carton TD-700E	1
0F03836A	Outer Carton TD-700D	1
0F03822A	Inner Carton TD-700 (U.S.A.)	1
0F03823A	Inner Carton TD-700 (Canada, Australia, Others & Japan)	1
0F03827A	Inner Carton TD-700E	1
0F03835A	Inner Carton TD-700D	1
0F03831A	Packing	2
0F03832A	Sleeve	1
0D04479A	Owner's Manual TD-700/TD-500 (Japanese)	1
0D04480A	Owner's Manual TD-700/TD-500 (English)	1
0D04482A	Owner's Manual TD-700/TD-500, TD-700E/TD-500E & TD-700D/TD-500D (English/German/French)	1
0D04481A	French Text TD-700/TD-500 (Canada)	1
0B90003A	Fuse 0.5A	1
0B90042A	Fuse 1.0A	1
0B81267E	4P Terminal TD-700 & TD-700E	1
0B81271E	4P Terminal TD-700D	1
0D04207A	Metal Stay (except Japan)	1
0B90067B	Ground Wire (except Japan)	1
0J04872A	U-shaped Grip (except Japan)	2
0H04459A	Trim Panel Rim (except Japan)	1
0J04879A	Sleeve Spacer A (thin type) (except Japan)	1
0J04880A	Sleeve Spacer B (thick type) (except Japan)	1
HA04666A	Mobile Traffic Information Processor TD-700	1

1.2. Note on Operation

If the Rewind button is pressed before the cassette tape loading process is completed, unexpected action may occur depending on the condition of the Mobile Tuner/Cassette Deck. The cassette tape may be ejected or played back unwillingly.

2. REMOVAL PROCEDURES

2.1. Top and Bottom Covers

Refer to Fig. 2.1.

- (1) Remove F01 (Mounting Sleeve).
- (2) Loosen screws F02 (1 pec.) and F03 (2 pcs.) and remove F04 (Top Cover).
- (3) Loosen screws F05 (1 pec.) and F06 (3 pcs.) and remove F07 (Bottom Cover).

2.2. Front Panel Ass'y

Refer to Fig. 2.2.

- (1) Remove the Top and Bottom Covers referring to item 2.1.
- (2) Loosen F01 and pull out knobs F02, F03 and F04.
- (3) Loosen F05 and remove F06 (Front Panel Ass'y including Cleaning Flap Ass'y).

2.3. Control P.C.B. Ass'y and Front Chassis

Refer to Fig. 2.2.

- (1) Remove the Front Panel Ass'y referring to item 2.2.
- (2) Loosen F07 and remove F08 (Control P.C.B. Ass'y).
- (3) Loosen F09 and F10 and remove F11, F12, F13 and F14.
- (4) Insert a small flat-blade screwdriver into the holes in the Main Chassis as shown in the figure and lift the upper part of the connector to unlock the flexible P.C.B. of the LCD Ass'y.
- (5) Disconnect connectors A and B and disassemble F15 (Front Chassis including LCD Ass'y, etc.).

2.4. Volume P.C.B. Ass'y

Refer to Fig. 2.2.

- (1) Remove the Front Chassis referring to item 2.3.
- (2) Loosen F16 and disassemble F17 and F18 (Volume P.C.B. Ass'y).

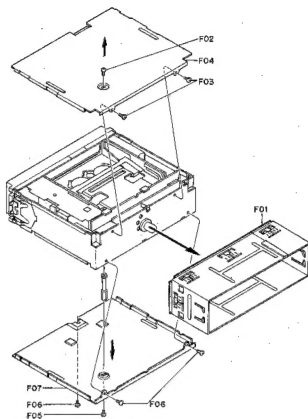


Fig. 2.1

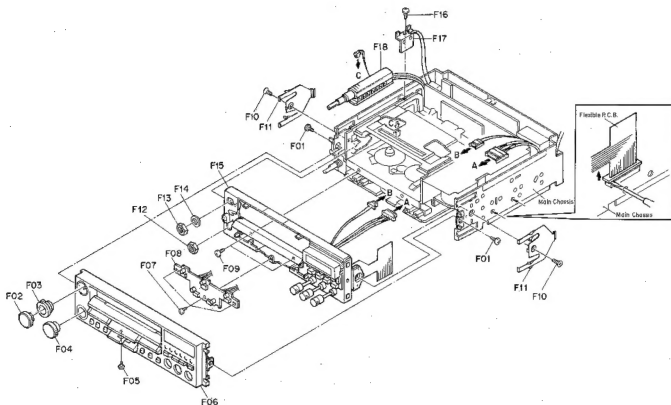


Fig. 2.2

2.5. Tuner P.C.B. Ass'y

Refer to Fig. 2.3.

- (1) Remove the Top and Bottom Covers referring to item 2.1.
- (2) Loosen F01, disconnect connectors A and B, and remove F02 (Tuner P.C.B. Ass'y) and F03.

2.6. Motor P.C.B. Ass'y

Refer to Fig. 2.3.

- (1) Remove the Top and Bottom Covers referring to item 2.1.
- (2) Loosen F04 and disconnect connectors C, D, E and F.
- (3) Remove F05 (Motor P.C.B. Insulator) and F06 (Motor P.C.B. Ass'y).

2.7. Amp. P.C.B. Ass'y

Refer to Fig. 2.3.

- (1) Remove the Top and Bottom Covers referring to item 2.1.
- (2) Remove the Tuner P.C.B. Ass'y and Motor P.C.B. Ass'y referring to items 2.5 and 2.6.
- (3) Loosen F07 and disconnect connector G.
- (4) Lift F08 (Amp. P.C.B. Ass'y), disconnect connectors H, I and J, and remove F08 (Amp. P.C.B. Ass'y).

2.8. Transport Mechanism Ass'y

Refer to Fig. 2.4.

- (1) Remove the Front Chassis and the Volume P.C.B. Ass'y referring to items 2.3 and 2.4.
- (2) Loosen F01, remove F02, and lift F03 (Motor P.C.B. Ass'y).
- (3) Disconnect connectors A, B, C and D.
- (4) Pull out F04 (Amp. P.C.B. Ass'y) and disconnect connector E.
- (5) Loosen F05, lift F06 (Transport Mechanism Ass'y and Motor P.C.B. Ass'y), and disconnect connector F to separate F06.

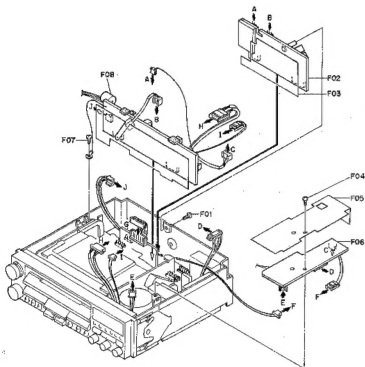


Fig. 2.3

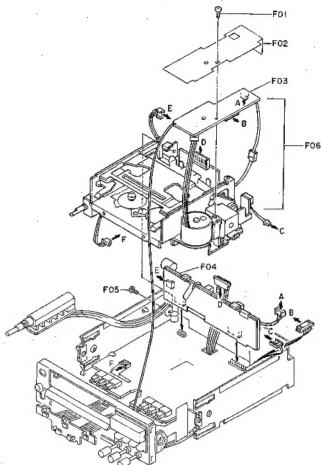


Fig. 2.4

3. TEST TAPES AND GAUGES

- (1) 1 kHz Track Alignment Tape (DA09007B)
- (2) 15 kHz Azimuth Tape (DA09004B)
- (3) 400 Hz Level Tape (DA09005B)
- (4) 3 kHz Speed & Wow/Flutter Tape (DA09006C)
- (5) Torque Gauge for Forward Playback (DA09082A)
- (6) Torque Gauge for F.F. & REW (DA09084A)
- (7) Head Alignment Gauge (DA09092A)

4. MECHANICAL ADJUSTMENTS

Note: Before adjustment, remove the Top and Bottom Covers referring to item 2.1.

4.1. Tape Speed Adjustment

Refer to Fig. 4.1.

- (1) Connect a frequency counter to Output Jack.
- (2) Load a 3 kHz Speed & Wow/Flutter Tape and play it back.
- (3) Adjust the potentiometer incorporated in the Main Motor Assy to obtain a 3 kHz reading on the frequency counter.

4.2. Tape Guide Height Adjustment

- (1) For Serial Nos.: C60502839 - (TD-700 & TD-700E) and C60701201 - (TD-700D)

Note: Remove the Cleaning Flap before loading the Head Alignment Gauge. When ejecting the Head Alignment Gauge pay attention so as not to strike against the Tape Slot Cover.

Refer to Fig. 4.2.

- (a) Turn the Azimuth Fine Tuning Control fully clockwise and then return it by 15 clicks to set it to the center position.
- (b) Load a base of the Head Alignment Gauge carefully and set the Mobile Tuner/Cassette Deck in Play mode.
- (c) Place a small block of the Head Alignment Gauge on the base.
- (d) Slide the small block against the Supply Tape Guide, and adjust the Tape Guide Height Adjustment Screw so that the small block is accepted by the Supply Tape Guide.

- (2) For Serial Nos.: C60501001 - 02838 (TD-700 & TD-700E) and C60701001 - 01200 (TD-700D)

Refer to Fig. 4.3.

- (a) Set the Azimuth Fine Tuning Control fully clockwise and then return it by 15 clicks to set it to the center position.
- (b) Connect a VTVM to the Output Jacks.
- (c) Load a 1 kHz Track Alignment Tape and play it back.
- (d) Turn the Tape Guide Height Adjustment Screw to obtain minimum readings on the VTVM for both channels.

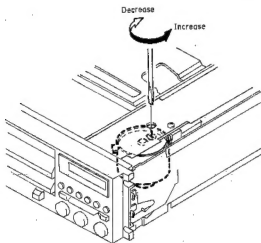


Fig. 4.1

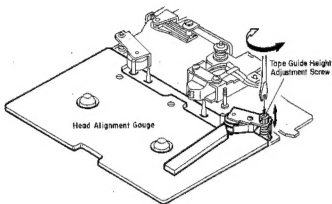


Fig. 4.2
Serial No.: C60502839 -
(TD-700 & TD-700E)
C60701201 - (TD-700D)

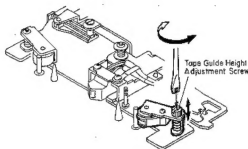


Fig. 4.3
Serial Nos.: C60501001 - 02838
(TD-700 & TD-700E)
C60701001 - 01200
(TD-700D)

4.3. Playback Head Height Adjustment and Azimuth Alignment
(1) For Serial Nos.: C60502839 - (TD-700 & TD-700E) and C60701201 - (TD-700D)

Refer to Fig. 4.4.

- Connect a VTVM to the Output Jacks.
- Set the Azimuth Fine Tuning Control to the center position referring to 4.2-(1)(a).
- Load a 1 kHz Track Alignment Tape and play it back.
- Turn the Playback Head Height Adjustment Screw to obtain minimum readings on the VTVM for both channels.
- Load a 15 kHz Azimuth Alignment Tape and play it back.
- Turn the Azimuth Alignment Screw to obtain maximum readings on the VTVM for both channels.
- Repeat above steps (c) through (f) one or two times to obtain optimum performance.

(2) For Serial Nos.: C60501001 - 02838 (TD-700 & TD-700E) and C60701001 - 01200 (TD-700D)

Refer to Fig. 4.5.

- Connect a VTVM to the Output Jacks.
- Load a 15 kHz Azimuth Alignment Tape and play it back.
- Turn the Azimuth Alignment Screw to obtain maximum readings on the VTVM for both channels.

Note: Playback Head Height Adjustment Screw is not provided in these Models.

4.4. Torque Adjustment

Refer to Fig. 4.6.

- Load a Torque Gauge for Forward Playback.
- Set the Mobile Tuner/Cassette Deck in Play mode.
- Check whether the playback torque and back tension torque on the Gauge are as follows:
 Playback torque: 35 g-cm \pm 5 to \pm 10 g-cm
 Back tension torque: 10 g-cm \pm 4 g-cm
- If the playback torque is out of the above range, turn the Playback Torque Adjustment Screw with a small flat-blade screwdriver to obtain a satisfactory result.
- Set the Mobile Tuner/Cassette Deck in Stop mode and then load a Torque Gauge for F.F. & REW.
- Set the Mobile Tuner/Cassette Deck in F.F. or Rewind mode and check that the torque is in the range shown below:
 F.F./Rewind torque: 60 g-cm \pm 10 to \pm 40 g-cm (50 to 100 g-cm)

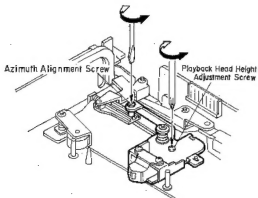


Fig. 4.4
 Serial No.: C60502839 -
 (TD-700 & TD-700E)
 C60701201 - (TD-700D)

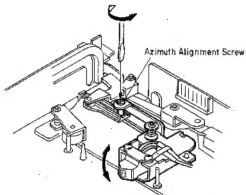
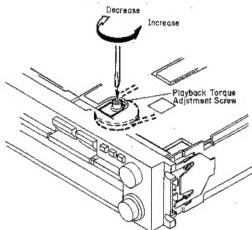


Fig. 4.5
 Serial Nos.: C60501001 - 02838
 (TD-700 & TD-700E)
 C60701001 - 01200
 (TD-700D)



(Bottom View)

Fig. 4.6

5. PARTS LOCATION FOR ELECTRICAL ADJUSTMENT

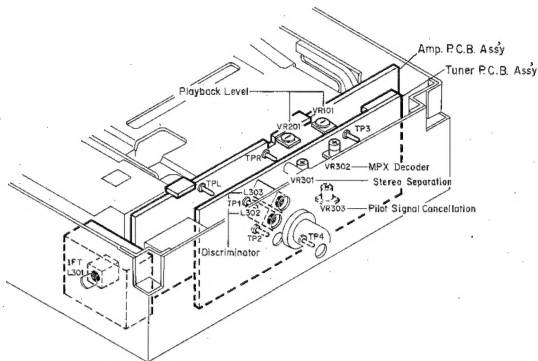


Fig. 5

6. ELECTRICAL ADJUSTMENTS

6.1. Cassette Deck Section

Note: Electrical adjustment should be performed after mechanical adjustment is completed.

STEP	ITEM	SIGNAL SOURCE	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
1	Preliminary Step			Volume - Max. Fader, Balance - Center Bass, Mid, Treble - Center		Set the Mobile Tuner/Cassette Deck to the initial mode (see MODE).
2	Playback Level Adjustment	400 Hz Level Tape	VIVM to IPL, TPR on Amp. P.C.B.	Playback Eq. SW - 70 μ s	Amp. P.C.B. VR101 VR201	1. Load a 400 Hz level tape and play it back. 2. Adjust VR101 (VR201) to obtain 350 mV on the VIVM.

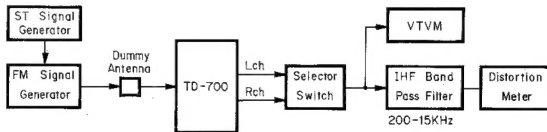


Fig. 6 Connection Diagram for FM Adjustment

8.2. Tuner Section (FM Adjustment)

Note: Adjustment should be made in a shielded room in principle.

STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
1	Preliminary Step	See Fig. 6	Mobile Tuner/Cassette Deck Dolby NR - OFF Band Selector - FM Volume - Max. Fader, Balance - Center Bass, Mid, Treble - Center FM Generator Frequency - 98 MHz RF Level - 65 dBf Modulation - 1 kHz (Stereo/Mono) Modulation Ratio - (See REMARKS)		1. Connect necessary instruments to the Mobile Tuner/Cassette Deck referring to connection diagram (Fig. 6). 2. Set the Mobile Tuner/Cassette Deck to the initial mode (see MODE). Modulation Ratio: Stereo TD-700 (U.S.A. & Canada): Audio 1 kHz 90%, Pilot 19 kHz 10% TD-700 (Australia & Others), TD-700E & TD-700D: Audio 1 kHz 50%, Pilot 19 kHz 10% Mono TD-700 (U.S.A. & Canada): Audio 1 kHz 100% TD-700 (Australia & Others), TD-700E & TD-700D: Audio 1 kHz 60%
2	IFT Adjustment		Mobile Tuner/Cassette Deck Same as above FM Generator Frequency - 98 MHz RF Level - 65 dBf Modulation - Mono	Front-end IFT Coil L301	With decreasing the RF level gradually from 65 dBf to 30 dBf, adjust IFT coil L301 to obtain minimum distortion. (Do not turn other components on the Front-end.)
3	MPX Decoder Adjustment	Frequency Counter to TP3 on Tuner P.C.B.	Mobile Tuner/Cassette Deck Same as above FM Generator Frequency - 98 MHz RF Level - 0 dBf Modulation - Mono	Tuner P.C.B. VR302	1. Cut the RF signal applied to the Mobile Tuner/Cassette Deck. 2. Adjust VR302 to obtain 76 kHz \pm 1 kHz on the frequency counter.
4	Discriminator Adjustment	DC Millivoltmeter between TP1 and TP2 on Tuner P.C.B.	Mobile Tuner/Cassette Deck Same as above FM Generator Frequency - 98 MHz RF Level - 65 dBf Modulation - Mono	Tuner P.C.B. L302, L303	1. Turn L302 (black core) to obtain \pm 50 mV on the DC millivoltmeter. 2. Turn L303 (white core) to obtain minimum distortion on the distortion meter. 3. Repeat above 2 and 3 two or three times.

STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
5	Pilot Signal Cancellation Adjustment		Mobile Tuner/Cassette Deck Same as above FM Generator Frequency - 98 MHz RF Level - 65 dBf Modulation - Stereo	Tuner P.C.B. VR303	1. Set the modulation of the FM Generator as follows: o Cut audio signal 1 kHz o Apply only pilot 19 kHz 10% 2. Adjust VR303 to obtain minimum readings on the VTVM for both channels. The minimum reading should be less than -40 dB.
6	Stereo Separation		Mobile Tuner/Cassette Deck Same as above FM Generator Frequency - 98 MHz RF Level - 65 dBf Modulation - Stereo	Tuner P.C.B. VR301	1. Cut the 1 kHz modulation of R channel of the stereo modulator. Namely, apply 1 kHz signal only to L channel. 2. Adjust VR301 to obtain minimum reading for R channel on the VTVM. 3. Apply 1 kHz signal only to R channel. 4. Adjust VR301 to obtain minimum reading for L channel on the VTVM. 5. Check whether the readings in 2 and 4 are less than -30 dB. If not, repeat 1 through 4 till satisfactory results are obtained.
7	Offset Voltage Check on IC301	DC Millivoltmeter across IC301-14 and GND on Tuner P.C.B.	Mobile Tuner/Cassette Deck Same as above FM Generator Frequency - 98 MHz RF Level - 65 dBf Modulation - Mono		Note: This check will be required only if IF Amp. IC301 (LA1140) on the Tuner P.C.B. Ass'y is replaced with new one. At that time, conduct Step 3 (adjustment of L302 and L303 on Tuner P.C.B.) and then check the following: 1. Set the modulation signal of FM generator to 1 kHz (Mono). 2. Check whether the reading on the DC millivoltmeter is less than 5 mV. 3. If not, replace with another LA1140 and repeat above 1 and 2 after re-adjustment of Step 3.

7. MECHANISM ASS'Y AND PARTS LIST

7.1. Synthesis

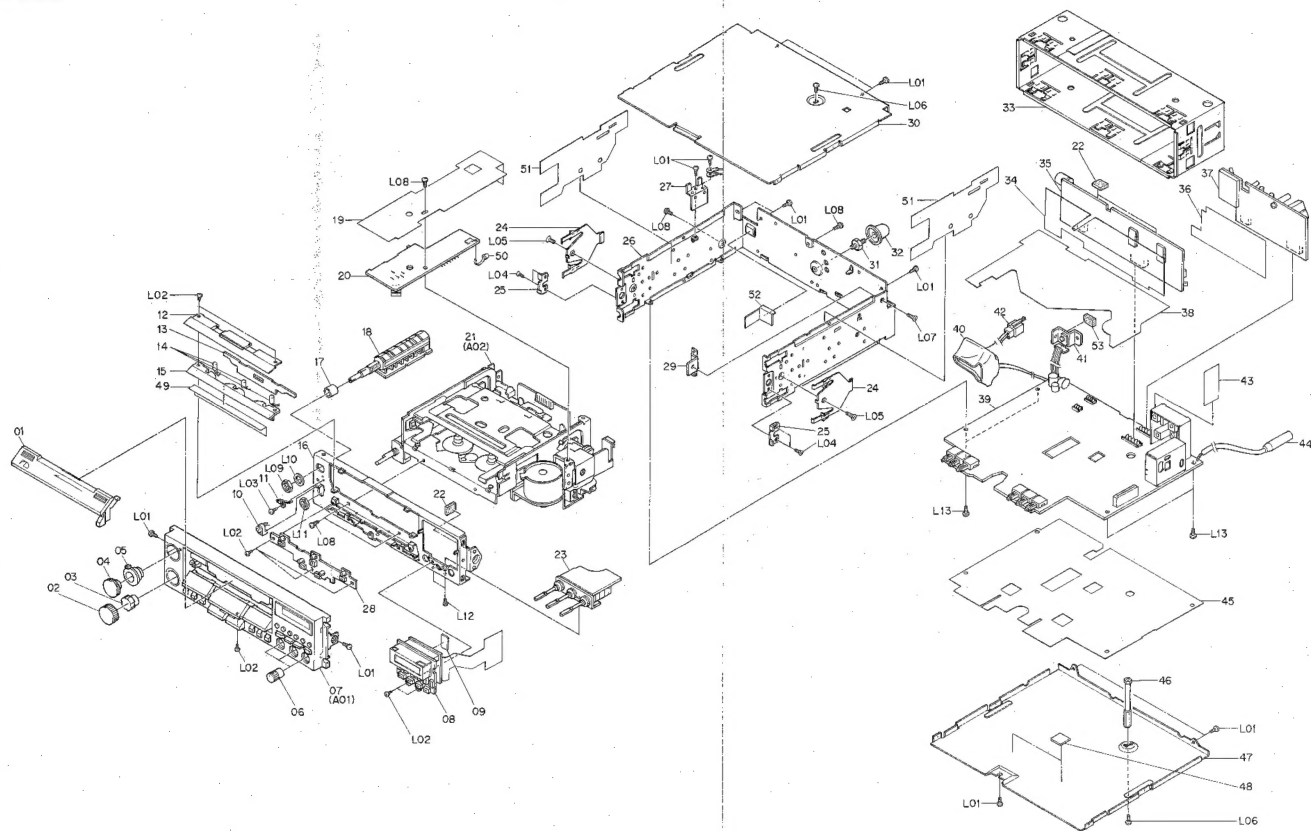


Fig. 7.1

Schematic Ref. No.	Part No.	Description	Qty	Schematic Ref. No.	Part No.	Description	Qty
		Synthesis		37	BA05423A	Tuner P.C.B. Assy TD-700 (Japan)	1
01	HA04783A	Cleaning Flap Assy TD-700	1	BA05424B	Tuner P.C.B. Assy TD-700 (U.S.A. & Canada)	1	
	HA04785A	Cleaning Flap Assy TD-700E	1	BA05458A	Tuner P.C.B. Assy TD-700 (Australia & Others), TD-700E & TD-700D	1	
02	OH04455A	Asimuth Knob Cap	1				
03	HA04674A	Asimuth Knob Assy	1	0J04882B	Insulator A	1	
04	HA04675A	Volume Knob Assy	1	BA05618A	Logic P.C.B. Assy TD-700 (Japan) (Serial No.: C60503399 -)	1	
05	OH04454A	Fader Knob	1	BA05619A	Logic P.C.B. Assy TD-700 (U.S.A. & Canada)	1	
06	OH04457A	Tone Control Knob	3				
07	HA04775A	Front Panel Assy TD-700 (Serial No.: C60502501 -)	1				
	HA04776A	Front Panel Assy TD-700E (Serial No.: C60502501 -)	1	BA05620A	Logic P.C.B. Assy TD-700 (Australia & Others) & TD-700E	1	
	HA04778A	Front Panel Assy TD-700D (Serial No.: C60701201 -)	1				
	HA04677C	Front Panel Assy TD-700 (Serial Nos.: C60501001 - 02500)	1	BA05622A	Logic P.C.B. Assy TD-700D (Serial No.: C60701251 -)	1	
	HA04679C	Front Panel Assy TD-700E (Serial Nos.: C60501001 - 02500)	1	BA05407A	Logic P.C.B. Assy TD-700 (Japan) (Serial Nos.: C60501001 - 03398)	1	
	HA04681C	Front Panel Assy TD-700D (Serial Nos.: C60701001 - 01200)	1	BA05427A	Logic P.C.B. Assy TD-700 (U.S.A. & Canada)	1	
08	BA05485A	LCD Assy TD-700 (Japan)	1				
	BA05486A	LCD Assy TD-700 (U.S.A. & Canada)	1	BA05451A	Logic P.C.B. Assy TD-700 (Australia & Others) & TD-700E	1	
	BA05487A	LCD Assy TD-700 (Australia & Others), TD-700E & TD-700D (LCD Assy includes the following)	1	BA05452A	Logic P.C.B. Assy TD-700D (Serial Nos.: C60701001 - 01250)	1	
09	(BA05516A)	(Buffer Amp. P.C.B. Assy (except for Japan))	(1)				
10	BA05435A	Illuminator Lamp Assy	1	40	(BA05501A)	(Line Filter P.C.B. Assy)	(1)
11	OB70029A	Leaf Switch	1	41	(BA05497A)	(Transistor P.C.B. Assy)	(1)
12	HA04474B	Illuminator Cover	1	42	(OB81268B)	(4P Terminal TD-700 & TD-700E)	(1)
13	OB60121A	Control Lamp P.C.B.	1	43	(OB81272B)	(4P Terminal TD-700D)	(1)
14	OB90030A	Lamp 14V 65mA	3	44	0J04859A	Tuner Insulator B	1
15	OH04670B	Illuminator B	1	45	OB81270A	Antenna Cable	1
16	0J04851C	Front Chassis	1	46	0J04883D	Insulator B	1
17	0J04853A	Spacer	1	47	0J04860B	Stud	1
18	BA05422A	Volume P.C.B. Assy TD-700 & TD-700E	1	48	OH04451G	Bottom Cover	1
	BA05466A	Volume P.C.B. Assy TD-700D	1	49	0J04897B	Heat Sink Sheet	2
19	0J04887B	Motor P.C.B. Insulator	1	50	OB90021A	Band EG-9	1
20	CA08414B	Motor P.C.B. Assy	1	51	0J04970C	Insulator C	2
21	CA08716A	Transport Mechanism Assy (Serial No.: C60503399 - (TD-700 & TD-700E)) (Serial No.: C60701251 - (TD-700D))	1	52	0J04895C	Wire Supporter	1
	CA08661B	Transport Mechanism Assy (Serial Nos.: C60501001 - 03398 (TD-700 & TD-700E)) (Serial Nos.: C60701001 - 01250 (TD-700D))	1	53	0J04899A	Cushion B	1
					0B41023A	Ceramic Capacitor 0.022u 25V (TD-700D)	1
				L01	0E03203A	ST2.6x5 @ Binding	12
				L02	0E03204A	ST2x4 @ Binding	8
				L03	0E00124A	M2x4 @ Pan	1
				L04	0E03213A	ST2x4 @ Countersunk	4
				L05	0E00533A	M3x5 @ Countersunk	2
				L06	0E03072A	M2.6x6 @ Binding	2
				L07	0E00007A	M2.6x5 @ Countersunk	1
				L08	0E00791A	M2.6x5 @ Binding	5
				L09	—	Nut	(1)
				L10	—	Washer	(1)
				L11	0E03240A	Nut Hex. M3	1
				L12	0E03244A	M2x4 @ Flat	2
				L13	0E03219A	ST2.6x6 @ Binding	4
	BA05421A	Tuner Volume P.C.B. Assy (Serial No.: C60501001 - 03550 (TD-700 & TD-700E)) (Serial Nos.: C60701001 - 01300 (TD-700D))	1				
24	0J04873B	Sleeve Lock Plate (except for Japan)	2				
25	0J04864A	Sleeve Stopper (except for Japan)	2				
26	0J04864A	Main Chassis	1				
27	OH04449B	Arm Protector	1				
28	0J04890A	Control P.C.B. Assy	1				
29	BA05415A	Cable Holder	1				
30	0J04856A	Top Cover	1				
31	OH04450F	Hold Screw (except for Japan)	1				
32	0J04859B	Rubber Cap (except for Japan)	1				
33	0J04870A	Mounting Sleeve (except for Japan)	1				
	0J04852D	—	1				
34	0J04855B	Amp. P.C.B. Insulator	1				
35	BA05611A	Amp. P.C.B. Assy (Serial No.: C60503551 - (TD-700 & TD-700E)) (Serial No.: C60701301 - (TD-700D))	1				
	BA05476B	Amp. P.C.B. Assy (Serial Nos.: C60501001 - 03550 (TD-700 & TD-700E)) (Serial Nos.: C60701001 - 01300 (TD-700D))	1				
36	0J04886B	Tuner P.C.B. Insulator	1				

7.2. Front Panel Ass'y (A01)

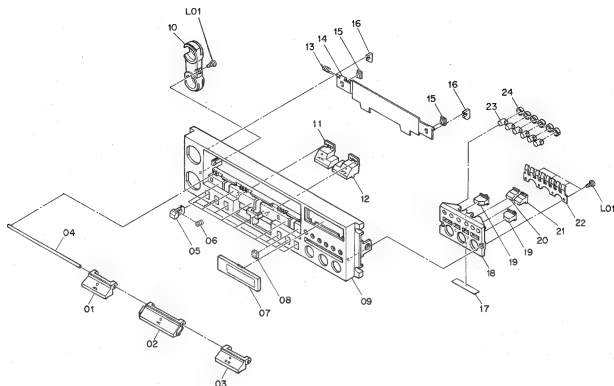


Fig. 7.2

Schematic Ref. No.	Part No.	Description	Qty	Schematic Ref. No.	Part No.	Description	Qty
A01	HA04775A	Front Panel Ass'y TD-700	1	A01	HA04677C	Front Panel Ass'y TD-700	1
	HA04776A	Front Panel Ass'y TD-700E	1		HA04679C	Front Panel Ass'y TD-700E	1
	HA04778A	Front Panel Ass'y TD-700D	1		HA04681C	Front Panel Ass'y TD-700D	1
		Serial Nos.: C60502501 - C60701201 -				Serial Nos.: C60501001 - 02500 C60701001 - 01200	
01	HA04709A	Eject Button Ass'y	1	01	HA04709A	Eject Button Ass'y	1
02	HA04708A	Play Button Ass'y	1	02	HA04708A	Play Button Ass'y	1
03	HA04710A	Pause Button Ass'y	1	03	HA04710A	Pause Button Ass'y	1
04	OJ04868A	Shaft	1	04	OJ04868A	Shaft	1
05	HA04788A	Push Button Ass'y	6	05	HA04788A	Push Button Ass'y	6
06	OJ04849A	Push Button Spring	6	06	OJ04849A	Push Button Spring	6
07	OH04460B	LCD Lens	1	07	OH04460A	LCD Lens	1
08	OJ04878A	Cushion	6	08	OJ04878A	Cushion	6
09	OH04472C	Front Panel	1	09	OH04472C	Front Panel	1
10	OH04462B	Illuminator C	1	10	OH04462B	Illuminator C	1
11	HA04713A	FF Button Ass'y	1	11	HA04713A	FF Button Ass'y	1
12	HA04714A	Rewind Button Ass'y	1	12	HA04714A	Rewind Button Ass'y	1
13	OJ04850B	Spring	1	13	OJ04850B	Spring	1
14	OH04491C	Tape Slot Cover TD-700	1	14	OH04491C	Tape Slot Cover TD-700	1
	OH04503C	Tape Slot Cover TD-700E	1		OH04503C	Tape Slot Cover TD-700E	1
	OH04508C	Tape Slot Cover TD-700D	1		OH04508C	Tape Slot Cover TD-700D	1
15	OH04463C	Tape Slot Cover Protector	2	15	OH04463C	Tape Slot Cover Protector	2
16	OJ04902A	Guide	2	16	OJ04902A	Guide	2
17	OJ04891A	Sheet	1	17	OJ04891A	Sheet	1
18	OH04469B	Illuminator D	1	18	OH04469A	Illuminator D	1
19	OH04483A	Up/Down Button	1	19	OH04483A	Up/Down Button	1
20	OH04482A	Scan Button	1	20	OH04482A	Scan Button	1
21	OH04480A	Memory Button	1	21	OH04480A	Memory Button	1
22	OJ04848A	Button Spring	1	22	OJ04848A	Button Spring	1
23	OH04473A	Station Button	1	23	OH04473A	Station Button	1
24	OJ04846B	Reflector	6	24	OJ04846B	Reflector	6
L01	OE00961A	BT2x5 @ Binding	5	L01	OE00961A	BT2x5 @ Binding	5

7.3. Transport Mechanism Ass'y (A02)

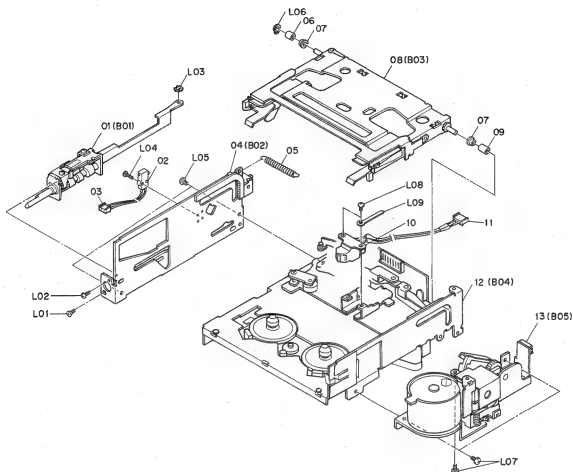


Fig. 7.3

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
A02	CA08716A	Transport Mechanism Ass'y Serial No.: C60503399 - C60701251 -	1	A02	CA08661B	Transport Mechanism Ass'y Serial No.: C60501001 - 03398 C60701001 - 01250	1
01	CA08687A	Azimuth Controller Ass'y	1	01	CA08687A	Azimuth Controller Ass'y	1
02	0B70028A	Eject Switch	1	02	0B70028A	Eject Switch	1
03	0B82299B	2P Coupler	1	03	0B82299B	2P Coupler	1
04	CA08656A	Side Chassis Ass'y	1	04	CA08656A	Side Chassis Ass'y	1
05	OC08868A	Spring A	1	05	OC08868A	Spring A	1
06	OC08799A	Guide Collar B	1	06	OC08799A	Guide Collar B	1
07	OC08797A	Guide Roller A	2	07	OC08797A	Guide Roller A	2
08	CA08665A	Cassette Holder Ass'y	1	08	CA08665A	Cassette Holder Ass'y	1
09	OC08798A	Guide Collar C	1	09	OC08798A	Guide Collar C	1
10	GA02203B	P2C-3L Playback Head	1	10	GA02203B	P2C-3L Playback Head	1
11	0B82302A	4P-H Connector	1	11	0B82302A	4P-H Connector	1
12	CA08717A	Transport Mechanism Sub Ass'y	1	12	CA08665A	Transport Mechanism Sub Ass'y	1
13	CA08667A	Loading Mechanism Ass'y	1	13	CA08667A	Loading Mechanism Ass'y	1
L01	OE03189A	M2x3 @ Countersunk (Black Chromate)	1	L01	OE03189A	M2x3 @ Countersunk (Black Chromate)	1
L02	OE03216A	M1.4x2.5 @ Pan (Black Chromate)	1	L02	OE03216A	M1.4x2.5 @ Pan (Black Chromate)	1
L03	OE00222A	E-Ring 2mm	1	L03	OE00222A	E-Ring 2mm	1
L04	OE03185A	M1.7x6 @ Pan	1	L04	OE03185A	M1.7x6 @ Pan	1
L05	OE03186A	M2.6x2.8 @ Pan (Black Chromate)	2	L05	OE03186A	M2.6x2.8 @ Pan (Black Chromate)	2
L06	OE00839A	Grip 2.5mm	1	L06	OE00839A	Grip 2.5mm	2
L07	OE00120A	M2.6x3 @ Pan (Black Chromate)	3	L07	OE00120A	M2.6x3 @ Pan (Black Chromate)	1
L08	OE00783A	M2x3 @ Pan (Black Chromate)	2	L08	OE00783A	M2x3 @ Pan (Black Chromate)	2
L09	OC08858A	Wire Clamper	1	L09	OC08858A	Wire Clamper	1

7.4. Azimuth Controller Ass'y (B01)

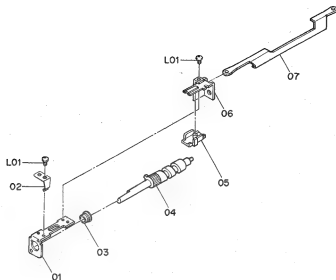


Fig. 7.4

7.5. Side Chassis Ass'y (B02)

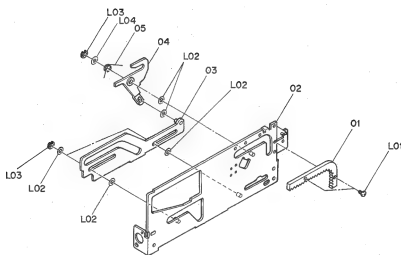


Fig. 7.5

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
B01	CA08687A	Azimuth Controller Ass'y Serial No.: C60501001 - C60701001 -	1	B02	CA08686A	Side Chassis Ass'y Serial No.: C60501001 - C60701001 -	1
01	OC08850B	Azimuth Cam Holder A	1	01	OC08828B	Rack Rail L	1
02	OC08856A	Plate Spring	1	02	CA08685A	Side Chassis L Ass'y	1
03	OC08896A	Cam Holder	1	03	CA08643B	G-Shaped Plate Ass'y	1
04	OC08777B	Azimuth Cam B	1	04	CA08644A	Slide Arm Ass'y	1
05	OC08854A	Joint Pin	1	05	OC08876A	Slide Arm Spring	1
06	OC08851B	Azimuth Cam Holder B	1	L01	OE03183A	M1.7x2.2 @ Pan (Black Chromate)	2
07	OC08853A	Joint Bar	1	L02	OE03062A	Mylar Washer 2.6mm 2.6x5x0.25	6
L01	OE00922A	M2x3 @ Pan (Black Chromate)	2	L03	OE00222A	E-Ring 2mm	3
				L04	OE03180A	Mylar Washer 2.6mm 2.6x6x0.25	1

7.6. Cassette Holder Ass'y (B03)

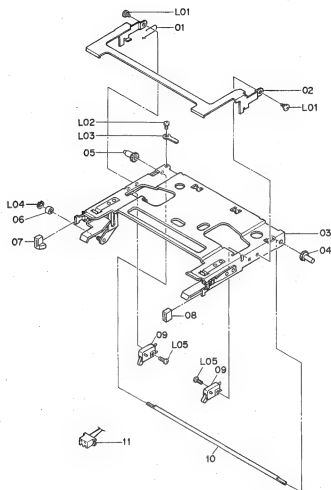


Fig. 7.6

Schematic Ref. No.	Part No.	Description	Qty
B03	CA08665A	Cassette Holder Ass'y Serial No.: C60501001 - C60701001	1
01	OC08890C	Plate Spring	1
02	OC08860F	Plate	1
03	CA08674D	Cassette Holder Sub Ass'y	1
04	OC08847A	Pinion Gear R	1
05	OC08846A	Pinion Gear L	1
06	OC08786A	Roller 1.5x4x2.5	1
07	OC08888B	Cassette Guide L	1
08	OC08887B	Cassette Guide R	1
09	OB70001A	Leaf Switch	2
10	OC08800B	Pinion Shaft	1
11	OB82301A	2P Coupler	1
L01	OE03208A	M1.4x2.55 @	2
L02	OE03190A	ST1.7x3 @ Pan (Black Chromate)	1
L03	OE00905A	Earth Lug 2mm	1
L04	OE00165A	E-Ring 1.2mm	1
L05	OE03184A	M1.7x5.5 @ Pan (Black Chromate)	2

7.7. Transport Mechanism Sub Ass'y (B04)

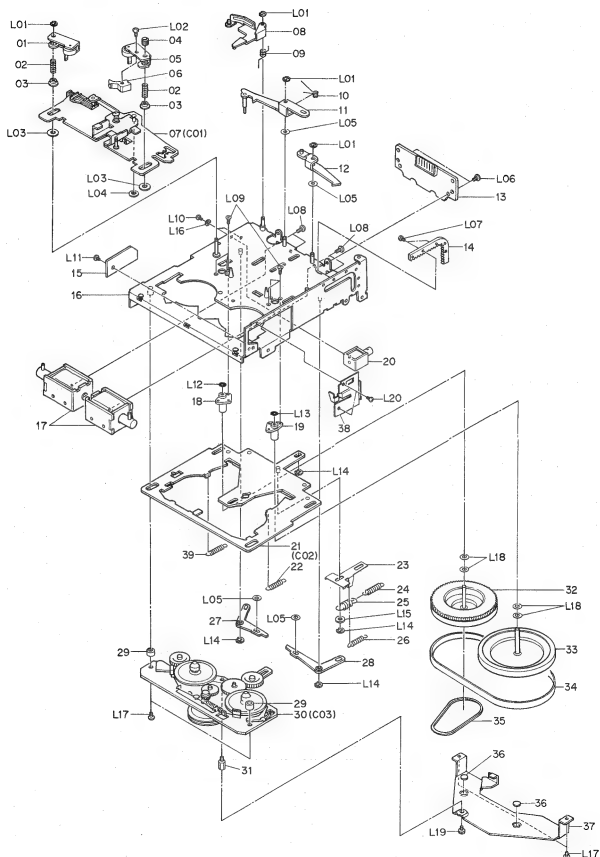


Fig. 7.7

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
B04	CA08171A	Transport Mechanism Sub Assy Serial No.: C60503399 - C60701251 -	1	B04	CA08663A	Transport Mechanism Sub Assy Serial Nos.: C60501001 - 03398 C60701001 - 01250	1
01	CA08617B	Take-up Pressure Roller Arm Sub Assy	1	01	CA08617B	Take-up Pressure Roller Arm Sub Assy	1
02	OC08878A	Pressure Roller Adjust Spring	2	02	OC08878A	Pressure Roller Adjust Spring	2
03	OC08689A	Roller Arm Sleeve	2	03	OC08689A	Roller Arm Sleeve	2
04	OC08694A	Pressure Roller Height Adjust Nut	1	04	OC08694A	Pressure Roller Height Adjust Nut	1
05	CA08618A	Supply Pressure Roller Arm Sub Assy	1	05	CA08618A	Supply Pressure Roller Arm Sub Assy	1
06	OC08756A	Tape Guide	1	06	OC08756A	Tape Guide	1
07	CA08679A	Head Slider Assy	1	07	CA08679A	Head Slider Assy	1
08	CA08656A	Azimuth Arm Assy	1	08	CA08656A	Azimuth Arm Assy	1
09	OC08891A	Azimuth Arm Spring	1	09	OC08891A	Azimuth Arm Spring	1
10	OC08867A	Lock Plate Spring	1	10	OC08867A	Lock Plate Spring	1
11	CA08622D	Play Lock Plate Assy	1	11	CA08622D	Play Lock Plate Assy	1
12	CA08623C	Rew Lock Plate Assy	1	12	CA08623C	Rew Lock Plate Assy	1
13	BA05430A	Solenoid P.C.B. Assy	1	13	BA05430A	Solenoid P.C.B. Assy	1
14	OC08829A	Rack Gear R	1	14	OC08829A	Rack Gear R	1
15	OC08817B	Guide Plate	1	15	OC08817B	Guide Plate	1
16	CA08657F	Mechanism Chassis Assy	1	16	CA08657F	Mechanism Chassis Assy	1
17	OB90027B	Main Solenoid G-825	2	17	OB90027B	Main Solenoid G-825	2
18	CA08629A	Take-up Flange Metal Assy	1	18	CA08629A	Take-up Flange Metal Assy	1
19	CA08630A	Supply Flange Metal Assy	1	19	CA08630A	Supply Flange Metal Assy	1
20	OB90028B	Lock Solenoid G-413	1	20	OB90028B	Lock Solenoid G-413	1
21	CA08678A	Master Plate Assy	1	21	CA08678A	Master Plate Assy	1
22	OC08884A	Pressure Roller Spring	1	22	OC08884A	Pressure Roller Spring	1
23	OC08679D	Centering Plate	1	23	OC08679D	Centering Plate	1
24	OC08881A	Control Plate Spring	1	24	OC08881A	Control Plate Spring	1
25	OC08880B	Head Base Spring	1	25	OC08880B	Head Base Spring	1
26	OC08877A	Centering Spring	1	26	OC08877A	Centering Spring	1
27	CA08612B	Solenoid Arm L Assy	1	27	CA08612B	Solenoid Arm L Assy	1
28	CA08613B	Solenoid Arm R Assy	1	28	CA08613B	Solenoid Arm R Assy	1
29	OC08703A	Slide Base Collar	2	29	OC08703A	Slide Base Collar	2
30	CA08718A	Reel Mechanism Assy	1	30	CA08718A	Reel Mechanism Assy	1
31	OC08807A	Thrust Stud	1	31	OC08807A	Thrust Stud	1
32	CA08609C	Supply Flywheel Assy	1	32	CA08610B	Supply Flywheel Assy	1
33	CA08610B	Supply Flywheel Assy	1	33	CA08609C	Take-up Flywheel Assy	1
34	OC08781A	Captain Belt	1	34	OC08781A	Captain Belt	1
35	OC08783A	V. Pulley Belt	1	35	OC08783A	V. Pulley Belt	1
36	OC08692A	Thrust Plate	2	36	OC08692A	Thrust Plate	2
37	OC08752B	Flywheel Plate B	1	37	OC08752B	Flywheel Plate B	1
38	OJ04901B	Cover Plate	1	38	OJ04901B	Cover Plate	1
39	OC08998A	Take-up Pressure Roller Spring	1	39	OC08998A	Take-up Pressure Roller Spring	1
L01	OE00042A	E-Ring 1.5mm	4	L01	OE00042A	E-Ring 1.5mm	4
L02	OE00841A	BT2x4 @ Pan	1	L02	OE00841A	BT2x4 @ Pan	1
L03	OC08826C	Slide Washer A	2	L03	OC08826C	Slide Washer A	2
L04	OC08827B	Slide Washer B	1	L04	OC08827B	Slide Washer B	1
L05	OE03196A	Mylar Washer 2.6mm 2.6x5x0.125	4	L05	OE03196A	Mylar Washer 2.6mm 2.6x5x0.125	4
L06	OE03197A	M2.6x4 @ Pan (Black Chromate)	2	L06	OE03197A	M2.6x4 @ Pan (Black Chromate)	2
L07	OE03183A	M1.7x2.2 @ Pan (Black Chromate)	2	L07	OE03183A	M1.7x2.2 @ Pan (Black Chromate)	2
L08	OE03241A	M3x4 @ Binding	4	L08	OE03241A	M3x4 @ Binding	4
L09	OE03189A	M2x3 @ Countersunk (Black Chromate)	6	L09	OE03189A	M2x3 @ Countersunk (Black Chromate)	6
L10	OE03246A	M1.6x3 @ Pan (Black Chromate)	2	L10	OE03246A	M1.6x3 @ Pan (Black Chromate)	2
L11	OE03196A	M2.6x2.8 @ Pan (Black Chromate)	1	L11	OE03196A	M2.6x2.8 @ Pan (Black Chromate)	1
L12	OE03200A	Nylon Washer 2mm 2.0x3.5x0.13	1	L12	OE03200A	Nylon Washer 2mm 2.0x3.5x0.13	1
L13	OE03179A	Nylon Washer 2.3mm 2.3x3.5x0.13	1	L13	OE03179A	Nylon Washer 2.3mm 2.3x3.5x0.13	1
L14	OE00222A	E-Ring 2mm	4	L14	OE00222A	E-Ring 2mm	4
L15	OE03206A	Nylon Washer 3.1x6x0.5	1	L15	OE03206A	Nylon Washer 3.1x6x0.5	1
L16	OE03199A	Washer 1.8x3.8x0.3 (Nickel)	2	L16	OE03199A	Washer 1.8x3.8x0.3 (Nickel)	2
L17	OE00120A	M2.6x3 @ Pan	4	L17	OE00120A	M2.6x3 @ Pan	4
L18	OE03062A	Mylar Washer 2.6mm 2.6x5x0.25	4	L18	OE03062A	Mylar Washer 2.6mm 2.6x5x0.25	4
L19	OE03242A	M2.6x3 Hex. Socket Head	1	L19	OE03242A	M2.6x3 Hex. Socket Head	1
L20	OE03248A	M2x2.5 @ Pan	2	L20	OE03243A	M2x2.5 @ Pan	2

7.8. Loading Mechanism Assy (B05)

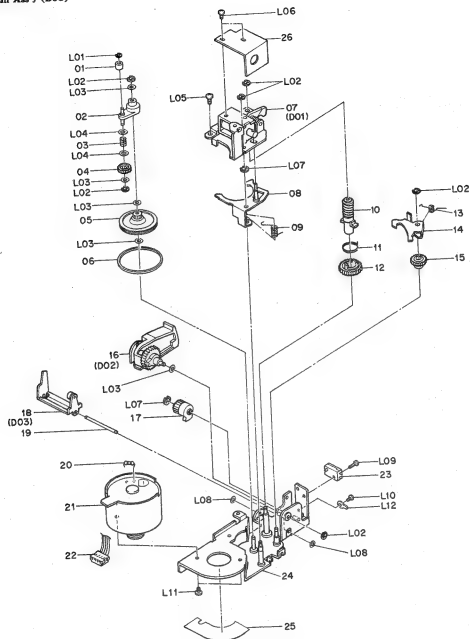


Fig. 7.8

Schematic Ref. No.	Part No.	Description	Qty
B05	CA08667A	Loading Mechanism Ass'y Serial No.: C60501001 - C60701001 -	1
01	OC08812A	Idler Roller L	1
02	CA08655B	P Arm L Ass'y	1
03	OC08872A	Function Spring	1
04	OC08840D	Idle Gear L	1
05	OC08842B	Loading Pulley	1
06	OC08784B	Loading Belt	1
07	CA08677A	Solenoid Plate Ass'y	1
08	CA08654B	Eject Arm Ass'y	1
09	OC08874A	Eject Arm Spring	1
10	OC08844C	Worm Gear	1
11	OC08873B	Flexible Spring	1
12	OC08839B	Loading Gear A	1
13	OC08871A	Loading Arm Spring C	1
14	OC08831B	Loading Arm C	1
15	OC08841B	Eject Gear	1
16	CA08675A	Loading Arm Ass'y	1
17	OC08789B	Head Base Cam Gear	1
18	CA08676A	Head Base Arm Ass'y	1
19	OC08793A	Head Base Arm Shaft	1
20	0B09629A	Carbon Resistor 10K 1/8W J	1
21	CA08652B	Main Motor Ass'y	1
22	0B82305A	4P-H Connector	1
23	0B70001A	Loading Switch	1
24	CA08653C	Motor Chassis Ass'y	1
25	0J04899A	Tone Volume Insulator	1
26	OC08893B	Solenoid Protector	1
L01	OE03182A	E-Ring 0.8mm	1
L02	OE00042A	E-Ring 1.5mm	6
L03	OE03061A	Mylar Washer 2.1mm 2.1x4x0.25	5
L04	OE03205A	Mylar Washer 3.1mm 3.1x4.9x0.125	2
L05	OE00226A	M2.6x4 @ Pan	1
L06	OE00922A	M2x3 @ Pan	2
L07	OE00222A	E-Ring 2mm	2
L08	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	2
L09	OE03185A	M1.7x6 @ Pan (Black Chromate)	1
L10	OE03183A	M1.7x2.2 @ Pan (Black Chromate)	1
L11	OE03186A	M2.6x2.8 @ Pan (Black Chromate)	2
L12	OE00905A	Earth Lug B	1
C01	CA08679A	Head Slider Ass'y Serial No.: C60501001 - C60701001 -	1
01	OC08679A	Head Hold Spring	1
02	OC08688B	Asimuth Screw	1
03	OC08749B	Head Mount Plate	1
04	OC08466A	Slide Cam Spring	1
05	OC08708A	Asimuth Adjust Plate	1
06	CA08635D	Head Base Ass'y	1
L01	OE00042A	E-Ring 1.5mm	1
L02	OE03191A	Washer 2.5mm 2.5x6.5x0.5	2
L03	OE03272A	PL1.7x3.5 @ Pan	1
C02	CA08678A	Master Plate Ass'y Serial No.: C60501001 - C60701001 -	1
01	CA08632E	Control Plate Ass'y	1
02	CA08615A	RF Selector Arm R Ass'y	1
03	CA08614A	FR Selector Arm L Ass'y	1
04	OC08705A	Drive Pin	1
05	OC08678A	FF Selector Plate	1
06	OC0882A	FF Limiter Spring	1
L01	OE00222A	E-Ring 2mm	2
L02	OE03196A	Mylar Washer 2.6mm 2.6x5x0.125	2
L03	OE00042A	E-Ring 1.5mm	1

7.9. Head Slider Ass'y (C01)

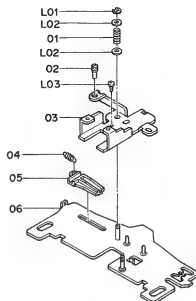


Fig. 7.9

7.10. Master Plate Ass'y (C02)

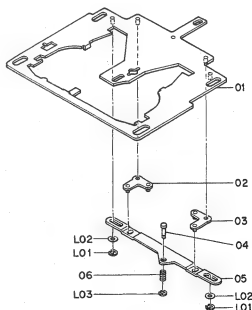


Fig. 7.10

7.11. Reel Mechanism Ass'y (C03)

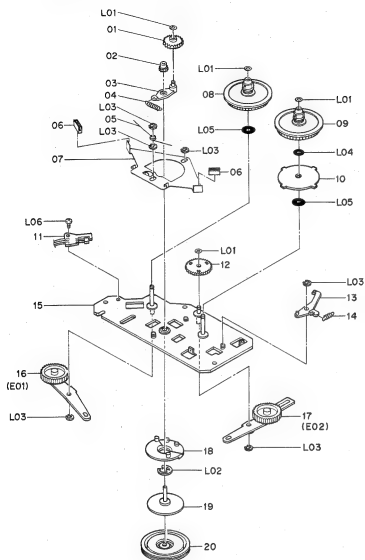


Fig. 7.11

7.12. Solenoid Plate Ass'y (D01)

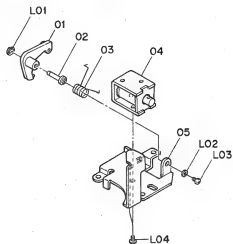


Fig. 7.12

7.13. Loading Arm Ass'y (D02)

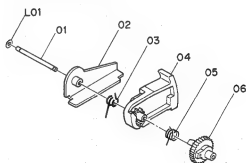


Fig. 7.13

7.14. Head Base Arm Ass'y (D03)

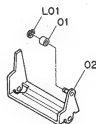


Fig. 7.14

7.15. FF Arm Ass'y (E01)

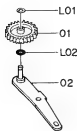


Fig. 7.15

7.16. Rewind Arm Ass'y (E02)

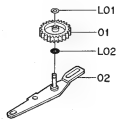


Fig. 7.16

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
C03	CA08718A	Reel Mechanism Ass'y Serial No.: C60503399 - C60701251 -	1	D01	CA08677A	Solenoid Plate Ass'y Serial No.: C60501001 - C60701001 -	1
01	OC08727A	Idler Gear	1	01	OC08834B	Stop Arm L	1
02	OC08676B	Pinion Gear	1	02	OC08838A	Stop Arm Shaft	1
03	CA08627B	Pivot Suspension Arm Ass'y	1	03	OC08875A	Stop Arm Spring	1
04	OC08866A	Pivot Suspension Arm Spring	1	04	0B90029A	Eject Solenoid	1
05	OC08864B	Brake Spring	1	05	OC08833A	Solenoid Plate	1
06	OC08690A	Brake Shoe	2	L01	OE00222A	E-Ring 2mm	1
07	OC08723B	RB Plate	1	L02	OE03199A	Washer 1.8mm	1
08	CA08639F	Take-up Reel Hub Ass'y	1	L03	OE03183A	M1.7x2.2 @Pan (Black Chromate)	1
09	CA08641F	Supply Reel Hub Ass'y	1	L04	OE00922A	M2x3 @Pan (Black Chromate)	2
10	OC08742A	Back Tension Disc	1				
11	BA05614B	Shut-off P.C.B. Ass'y	1	D02	CA08675A	Loading Arm Ass'y Serial No.: C60501001 - C60701001 -	1
12	OC08729B	Idler Gear	1				
13	OC08709A	Back Tension Arm	1				
14	OC08865A	Back Tension Arm Spring	1				
15	CA08634D	Reel Chassis Ass'y	1	01	OC08795B	Main Shaft L	1
16	CA08672A	FF Arm Ass'y	1	02	CA08645A	Loading Arm B Ass'y	1
17	CA08671A	Rewind Arm Ass'y	1	03	OC08870A	Loading Arm Spring B	1
18	OC08778A	FR Drum	1	04	OC08801B	Loading Arm A	1
19	CA08631A	Clutch Disc Ass'y	1	05	OC08869C	Loading Arm Spring A	1
20	CA08673A	Magnet Clutch Pulley Ass'y	1	06	OC08791B	Loading Gear B	1
L01	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	4	L01	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	1
L02	OE00104A	E-Ring 5mm	1				
L03	OE00042A	E-Ring 1.5mm	6	D03	CA08676A	Head Base Arm Ass'y Serial No.: C60501001 - C60701001 -	1
L04	OE03195A	Nylon Washer 3.6mm 3.6x6x0.25	1				
L05	OE03193A	Nylon Washer 2.1mm 2.1x7x0.25	2	01	OC08786A	Roller 1.5x4x2.5	1
L06	OE00922A	M2x3 @Pan	1	02	CA08642B	Head Base Arm Sub Ass'y	1
				L01	OE00165A	E-Ring 1.2mm	1
C03	CA08670A	Reel Mechanism Ass'y Serial Nos.: C60501001 - 03398 C60701001 - 01250	1	E01	CA08672A	FF Arm Ass'y Serial No.: C60501001 - C60701001 -	1
01	OC08727A	Idler Gear	1				
02	OC08676B	Pinion Gear	1				
03	CA08627B	Pivot Suspension Arm Ass'y	1	01	OC08731A	F Idler A	1
04	OC08866A	Pivot Suspension Arm Spring	1	02	CA08626C	FF Arm Sub Ass'y	1
05	OC08864B	Brake Spring	1	L01	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	1
06	OC08690A	Brake Shoe	2	L02	OE03187A	Nylon Washer FT 20 2.1x4.0x0.25	1
07	OC08723B	RB Plate	1				
08	CA08639F	Take-up Reel Hub Ass'y	1	E02	CA08671A	Rewind Arm Ass'y Serial No.: C60501001 - C60701001 -	1
09	CA08641F	Supply Reel Hub Ass'y	1				
10	OC08742A	Back Tension Disc	1				
11	BA05614B	Shut-off P.C.B. Ass'y	1				
12	OC08729B	Idler Gear	1				
13	OC08709A	Back Tension Arm	1	01	OC08731A	F Idler A	1
14	OC08865A	Back Tension Arm Spring	1	02	CA08624B	Rewind Arm Sub Ass'y	1
15	CA08634D	Reel Chassis Ass'y	1	L01	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	1
16	CA08672A	FF Arm Ass'y	1	L02	OE03187A	Nylon Washer FT 20 2.1x4.0x0.25	1
17	CA08671A	Rewind Arm Ass'y	1				
18	OC08778A	FR Drum	1				
19	CA08631A	Clutch Disc Ass'y	1				
20	CA08673A	Magnet Clutch Pulley Ass'y	1				
L01	OE03181A	Mylar Washer 1.6mm 1.6x3.5x0.25	4				
L02	OE00104A	E-Ring 5mm	1				
L03	OE00042A	E-Ring 1.5mm	6				
L04	OE03195A	Nylon Washer 3.6mm 3.6x6x0.25	1				
L05	OE03193A	Nylon Washer 2.1mm 2.1x7x0.25	2				
L06	OE00922A	M2x3 @Pan	1				

8. MOUNTING DIAGRAMS AND PARTS LIST

Notes: 1. Mounting diagram shows a dip side view of the printed circuit board.

1. Mounting diagram shows a dip side view of the printed.
2. Diode is MA221 or RLS-73 unless otherwise specified.

3. Following transistors are interchangeable with each other.

2SC945, 2SC536SP, 2SC2458, 2SC2785

4. Abbreviation for part name:

TR — Transistor, SiD — Silicon Diode, ZD — Zener Diode

RK — Carbon Resistor, RM — Metal Film Resistor, RF — Fail Safe Type Resistor

CE — Electrolytic Capacitor, CM — Mylar Capacitor, CC — Ceramic Capacitor, CP — PP Capacitor,

CT — Tantalum Capacitor

8.1. Line Filter P.C.B. Ass'y

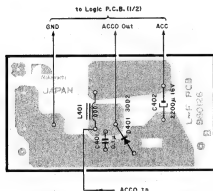


Fig. 8.1

8.2. Transistor P.C.B. Ass'y



Fig. 8.2

8.3. Shut-off P.C.B. Ass'y



Fig. 8.3

8.4. Lamp P.C.B. Ass'y

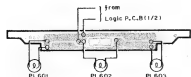


Fig. 8.4

8.5. Solenoid P.C.B. Ass'y

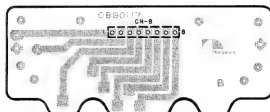


Fig. 8.5

Schematic Ref. No.	Part No.	Description
	BA05501A	Line Filter P.C.B. Assy
D401	0B06126B	Line Filter P.C.B.
D401	0B06458A	SID 30D-2
C401	0B06707A	Choke Coil
C401	0B09252A	CC 0.1 μ 50V Z
C402	0B09894A	CE 220 Ω 16V
	0B08068B	GND Cable (1)
	0B08069A	ACC Cable (1)
	0B90019A	SK Binder (2)
	BA05497A	Transistor P.C.B. Assy
Q405 FC1	0B06122A	Transistor P.C.B.
	0B06303A	TR 2SB772 (P,Q)
	0B82346A	Flat Cable 3P 120mm
	0J04855B	Wire Holder (1)
	0E00507A	Nut Hex. M3 (3)
	0E00510A	M3x8 @ Pan (2A) (1)
	BA05614B	Shut-off P.C.B. Assy Serial No.: C60503399 - C60701251 -
IC604 CN9	0B06103B	Shut-off P.C.B.
	0B11062A	Hall IC DN6838
	0B82358A	3P-H Connector 50mm
	BA05429A	Shut-off P.C.B. Assy Serial Nos.: C60501001 - 03398 C60701001 - 01250
IC604 CP3	0B06103A	Shut-off P.C.B.
	0B11062A	Hall IC DN6838
	0B82297B	3P Coupler
	BA05484A	Lamp P.C.B. Assy
PL601.602 603	0B06121A	Lamp P.C.B.
	0B90030A	Lamp 65mA 14V
	0H04670B	Illuminator B (1)
	BA05430A	Solenoid P.C.B. Assy
CN8	0B06110B	Solenoid P.C.B.
	0B81042A	8P-S Post

8.6. Buffer Amp, P.C.B. Ass'y

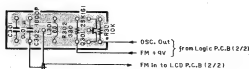


Fig. 8.6

8.7. Control P.C.B. Ass'y

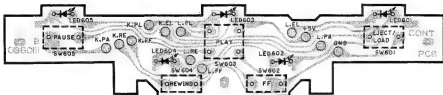


Fig. 8.7

8.8. Volume P.C.B. Ass'y

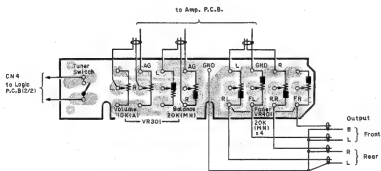


Fig. 8.8

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05516A	Buffer Amp, P.C.B. Ass'y (except for Japan)		BA05422A	Volume P.C.B. Ass'y TD-700 & TD-700E
				BA05466A	Volume P.C.B. Ass'y TD-700D
Q301	0B60132A	Buffer Amp, P.C.B. FET 2SK161		0B60115A	Volume P.C.B.
L301	0B06461A	RF Coil		0B30011A	Volume 12mm
R301	0B09701A	RK 10K 1/5W J	CN4	0B32005A	2P-H Connector
R302	0B09665A	RK 330 1/5W J		0B81269B	Pin Jack Cable BLK TD-700 & TD-700E (1)
C301	0B41019A	CC 0.01μ 25V			
C302	0B41007A	CC 1000P 25V		0B81280A	Pin Jack Cable GR Y TD-700 & TD-700E (1)
	BA05415A	Control P.C.B. Ass'y		0B81275B	Socket 7P TD-700D (1)
	0B01111B	Control P.C.B.		0E03123A	Earth Lug M2.6 (1)
LED601-605	0B12215A	LED SLP202C Green		0B80077B	Shield Wire A (Yellow) (1)
SW601,602	0B70020A	Tact Switch		0B80079B	Shield Wire B (Red) (1)
604,605	0B70032A	Tact Switch		0B80080B	Shield Wire C (Black) (1)
SW603	0J04845A	Tact Switch Reflector A (5)			

Schematic Ref. No.	Part No.	Description
	BA05613A	Tone Volume P.C.B. Ass'y Serial No.: C605013551 - C60701301 -
IC304	0B60114C 0B11155A	Tone Volume P.C.B. IC LF353N (Low Noise)
VR302,304 VR303 R140,143 240,243 R141,144 241,244 R142,145 242,245 R146,246 R150,250 R151,251 C123,223 C124,224 C125,225 C126,226 C127,227 C128,228 CP1 CP2	0B300112A 0B30013A 0B23085A 0B23079A 0B23097A 0B25001A 0B23109A 0B23111A 0B41175A 0B41176A 0B41373A 0B09045A 0B41386A 0B08235A 0B82383A 0J48548A	VR 100K (B)x2 VR 500K (B)x2 RK 3.3K 1/8W J RK 1.8K 1/8W J RK 10K 1/8W J RK 10M 1/8W J RK 33K 1/8W J RK 39K 1/8W J CM 0.15 μ 50V J CM 0.22 μ 50V J CM 0.068 μ 50V J CM 0.027 μ 50V J CP 100P 100V J CP 680P 100V J 6P Coupler 2P Coupler Tone Volume Holder (1)
	BA05421A	Tone Volume P.C.B. Ass'y Serial Nos.: C60501001 - 03550 C60701001 - 01300
IC304 VR302,304 VR303 R140,143 240,243 R141,144 241,244 R142,145 242,245 R146,246 R150,250 R151,251 C123,223 C124,224 C125,225 C126,226 C127,227 C128,228 CP1 CP2	0B60114C 0B11032A 0B30012A 0B30013A 0B23073A 0B23069A 0B23093A 0B23145A 0B23111A 0B23109A 0B41177A 0B41176A 0B41176A 0B05582A 0B41213A 0B41121A 0B82292A 0B82294B 0B90021A 0J48548A	Tone Volume P.C.B. IC LF353N VR 100K (B)x2 VR 500K (B)x2 RK 1K 1/8W J RK 680 1/8W J RK 6.8K 1/8W J RK 1M 1/8W J RK 39K 1/8W J RK 33K 1/8W J CM 0.33 μ 50V J CM 0.15 μ 50V J CM 0.22 μ 50V J CM 0.022 μ 50V J CP 330P 100V J CP 680P 100V G 6P Coupler 2P Coupler Band E-g-9 Tone Volume Holder (1)

8.11. Tuner P.C.B. Ass'y
(1) For TD-700
(U.S.A. & Canada)

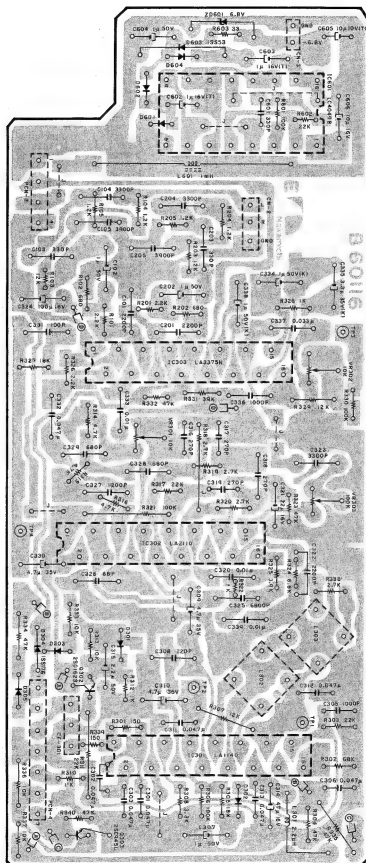


Fig. 8.11.1

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05424B	Tuner P.C.B. Ass'y TD-700 (U.S.A. & Canada)	C326	OB41191A	C 68P 100V J
			C327	OB05687A	CM 1200P 50V J
			C328,329	OB05571A	CM 680P 50V J
			C331	OB41386A	CP 100P 50V J
	OB60116E	Tuner P.C.B.	C332	OB05796A	CM 0.047 μ 50V J
IC301	OB06412A	IC LA1140	C334,338	OB40263A	CE 1 μ 50V K
IC302	OB06414A	IC LA2110	C335	OB40264A	CE 3.3 μ 35V K
IC303	OB06415B	IC LA3375N	C336	OB41225A	CP 100P 100V J
IC601	OB11066A	IC LC4049B	C337	OB05583A	CM 0.032 μ 50V J
Q302	OB14022A	TR 2SC1623	C601	OB43055A	OC 330P 50V K
Q303	OB01872A	TR 2SC9451 (P.Q)	C602	OB43025A	CT 1 μ 16V
ZD601	OB06241A	ZD 6.8V RD6.8EB2	C605	OB43020A	CT 10 μ 10V
D301,302 303,601 602	OB13064A	SID MA221	C606	OB40162A	CE 10 μ 16V
			CF301	OB41076A	Ceramic Filter SFE10.7MS3GKY
D304	OB06298A	SID 1SS176	CN3	OB81036A	2P-S Post (1)
D305,604	OB13003A	SID RLS-73	PCN2	OB81283A	3P-S Post (1)
D603	OB06181A	SID 1SS53	PCN3	OB43058A	4P Connector (1)
L301	OB51106A	Micro Coil 2.2 μ H	PCN4	OB82286A	7P Connector (1)
L302	OB51142A	Det. Coil 57-1291-01		OE00764A	M2.6x6 @ Pan (2A)
		Det Coil 57-1057-01			(1)
L303	OB06712A	Micro Coil 1mH		OJ04869A	P.C.B. Holder Stud (1)
L601	OB51040A	Potentiometer 10K		OB81117A	Contact Pin 1P (4)
VR301,302	OB32035A	Potentiometer 100K		OJ04871B	Shield Case (1)
VR303	OB32038A	Potentiometer 100K			
R101,201 326	OB23081A	RK 2.2K 1/8W J			
R102,202	OB23069A	RK 680 1/8W J			
R103,203	OB23099A	RK 12K 1/8W J			
R104,105 204,205	OB23075A	RK 1.2K 1/8W J			
R301,339	OB23053A	RK 150 1/8W J			
R302	OB23117A	RK 68K 1/8W J			
R303,317 602	OB23105A	RK 22K 1/8W J			
R304,323 332,334 340	OB23113A	RK 47K 1/8W J			
R305,327	OB23103A	RK 18K 1/8W J			
R306,330 601	OB23121A	RK 100K 1/8W J			
R307	OB05650A	RK 12K 1/4W VJ			
R308	OB23085A	RK 3.3K 1/8W J			
R309	OB23101A	RK 15K 1/8W J			
R310,312 322,328	OB23073A	RK 1K 1/8W J			
R311	OB05615A	RK 22K 1/4W J			
R313,333 386,337	OB23097A	RK 10K 1/8W J			
R314,315 316	OB23089A	RK 4.7K 1/8W J			
R318	OB05629A	RK 2.7K 1/4W J			
R319,320 338	OB23063A	RK 2.7K 1/8W J			
R321	OB01889A	RK 100K 1/4W J			
R324	OB23093A	RK 6.8K 1/8W J			
R325	OB23087A	RK 3.9K 1/8W J			
R329	OB09703A	RK 12K 1/8W J			
R331	OB23111A	RK 39K 1/8W J			
R335	OB09717A	RK 47K 1/8W J			
R603	OB23037A	RK 33 1/8W J			
C101,201	OB41233A	CP 2200P 100V J			
C102,202	OB40255A	CE 1 μ 50V			
C105,203	OB41213A	CP 330P 100V J			
C104,204	OB41237A	CP 3300P 100V J			
C105,205	OB41239A	CP 3900P 100V J			
C301,302 303,306 311,312 313	OB43053A	CC 0.047 μ 50V K			
C305	OB43050A	CC 1000P 50V K			
C307,603 604	OB40173A	CE 1 μ 50V			
C308	OB41394A	CP 220P 50V J			
C309,330	OB40258A	CE 4.7 μ 35V			
C310	OB40019A	CE 4.7 μ 35V			
C314	OB40165A	CE 47 μ 16V			
C315	OB40174A	CE 2.2 μ 50V			
C316,317 319	OB43049A	CC 270P 50V K			
C318	OB09284A	CC 270P 50V J			
C320,333 339	OB41094A	CM 0.01 μ 50V			
C321	OB40163A	CE 22 μ 16V			
C322	OB01802A	CM 2200P 50V J			
C323	OB01914A	CM 3300P 50V J			
C324	OB40206A	CE 100 μ 16V			
C325	OB05530A	CM 6800P 50V J			

(2) For TD-700 (Australia & Others), TD-700E and TD-700D

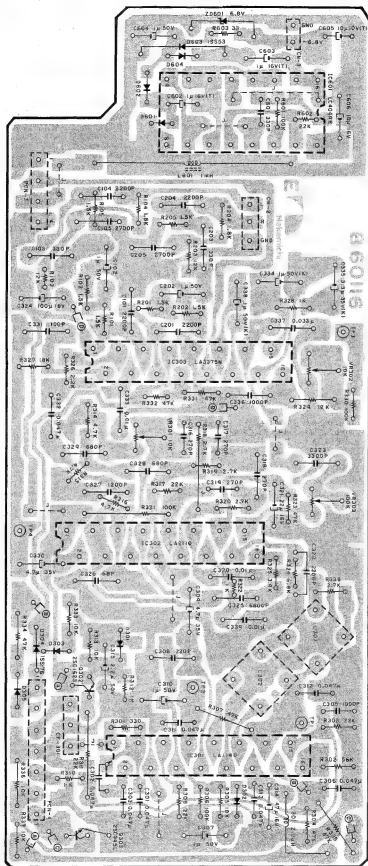


Fig. 8.11.2

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05458A	Tuner P.C.B. Am's TD-700 (Australia & Others), TD-700E & TD-700D	C328,329 C331 C332 C334,338 C335 C336 C337 C601 C602 C605 C606 CF301	0B05571A 0B41386A 0B05796A 0B40263A 0B40264A 0B41225A 0B05583A 0B43055A 0B43025A 0B43020A 0B40162A 0B41076A	CM 680P 50V J CP 100P 50V J CM 0.047μ 50V J CE 1μ 50V K CE 3.3μ 35V K CP 1000P 100V J CM 0.033μ 50V J CC 330P 50V K CT 1μ 16V CT 10μ 10V CE 10μ 16V Ceramic Filter
IC301 IC302 IC303 IC601 Q302 Q303 ZD601 D301,302 303,601 602 D304 D305,604 D603 L301 L302 L303 L601 VR301,302 VR303 R101,102 105,201 202,205 R103,203 R104,204 R301 R302 R303,308 317,602 R304,323 331,332 334 R305,327 R306,330 601 R307 R310,312 322,328 R311 R313,333 336,337 R314,315 316 R318 R319,320 338 R321 R324 R325 R326 R329 R335 R603 C101,104 201,204 C102,202 C103,203 C105,205 C301,302 303,306 311,312 313 C305 C307,310 603,604 C308 C309,330 C314 C315 C316,317 319 C318 C320,333 339 C321 C322 C323 C324 C325 C326 C327	0B60116E 0B06412A 0B06414A 0B06415B 0B11066A 0B14022A 0B01872A 0B06241A 0B13064A 0B06398A 0B13003A 0B06181A 0B51106A 0B51142A 0B06712A 0B51040A 0B32035A 0B32038A 0B23077A 0B23099A 0B23079A 0B23061A 0B23115A 0B23105A 0B23113A 0B23103A 0B23121A 0B05562A 0B23078A 0B05615A 0B23097A 0B23089A 0B05629A 0B23083A 0B01889A 0B23093A 0B23087A 0B23081A 0B09703A 0B09717A 0B23037A 0B41233A 0B43053A 0B43050A 0B40175A 0B41394A 0B40258A 0B40165A 0B40174A 0B43049A 0B09284A 0B41094A 0B40163A 0B01802A 0B01914A 0B40206A 0B05530A 0B41191A 0B05687A	Tuner P.C.B. IC LA1140 IC LA2110 IC LA3375N IC LC4049B TR 2SC1623 TR 2SC945L (P,Q) ZD 6.8V RD6.8EB2 SID MA221 SID 1SS176 SID R13-73 SID 1SS53 Micro Coil 2.2μH Det. Coil 57-1291-01 Det. Coil 57-1057-01 Micro Coil 1mH Potentiometer 10K Potentiometer 100K RK 1.5K 1/8W J RK 12K 1/8W J RK 1.8K 1/8W J RK 330 1/8W J RK 56K 1/8W J RK 22K 1/8W J RK 47K 1/8W J RK 18K 1/8W J RK 100K 1/8W J RK 47K 1/4W VJ RK 1K 1/8W J RK 22K 1/4W J RK 10K 1/8W J RK 4.7K 1/8W J RK 2.7K 1/4W J RK 2.7K 1/8W J RK 100K 1/4W J RK 6.8K 1/8W J RK 3.9K 1/8W J RK 2.2K 1/8W J RK 12K 1/8W J RK 47K 1/8W J RK 33 1/8W J CP 2200P 100V J CE 1μ 50V CP 330P 100V J CP 2700P 100V J CC 0.047μ 50V K CC 1000P 50V K CE 1μ 50V CP 220P 50V J CE 4.7μ 35V CE 47μ 16V CE 2.2μ 50V CC 270P 50V K CC 270P 50V J CM 0.01μ 50V CE 22μ 16V CM 2200P 50V J CM 3300P 50V J CE 100μ 16V CM 6800P 50V J C 68P 100V J CM 1200P 50V J	0B81036A 0B81283A 0B82288A 0B82289A 0E00764A 0J04869A 0B81117A 0J04871B	2P-S Post (1) 3P-S Post (1) 4P Connector (1) 7P Connector (1) M2.6x6 Φ Fan (2A) (1) P.C.B. Holder Stud (1) Contact Pin 1P (4) Shield Case (1)	

(3) For TD-700 (Japan)

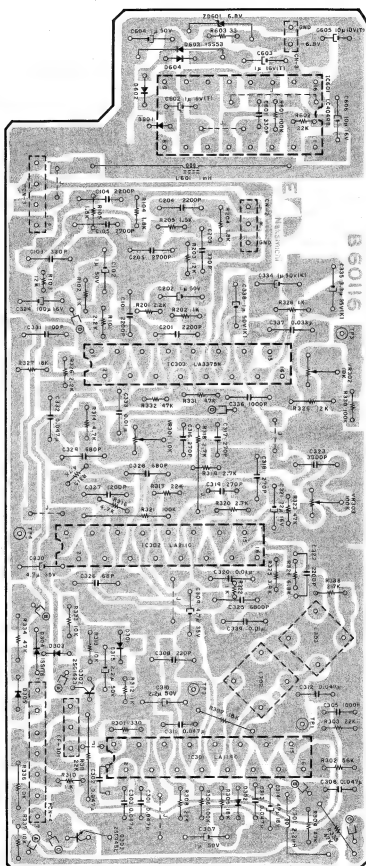


Fig. 8.11.3

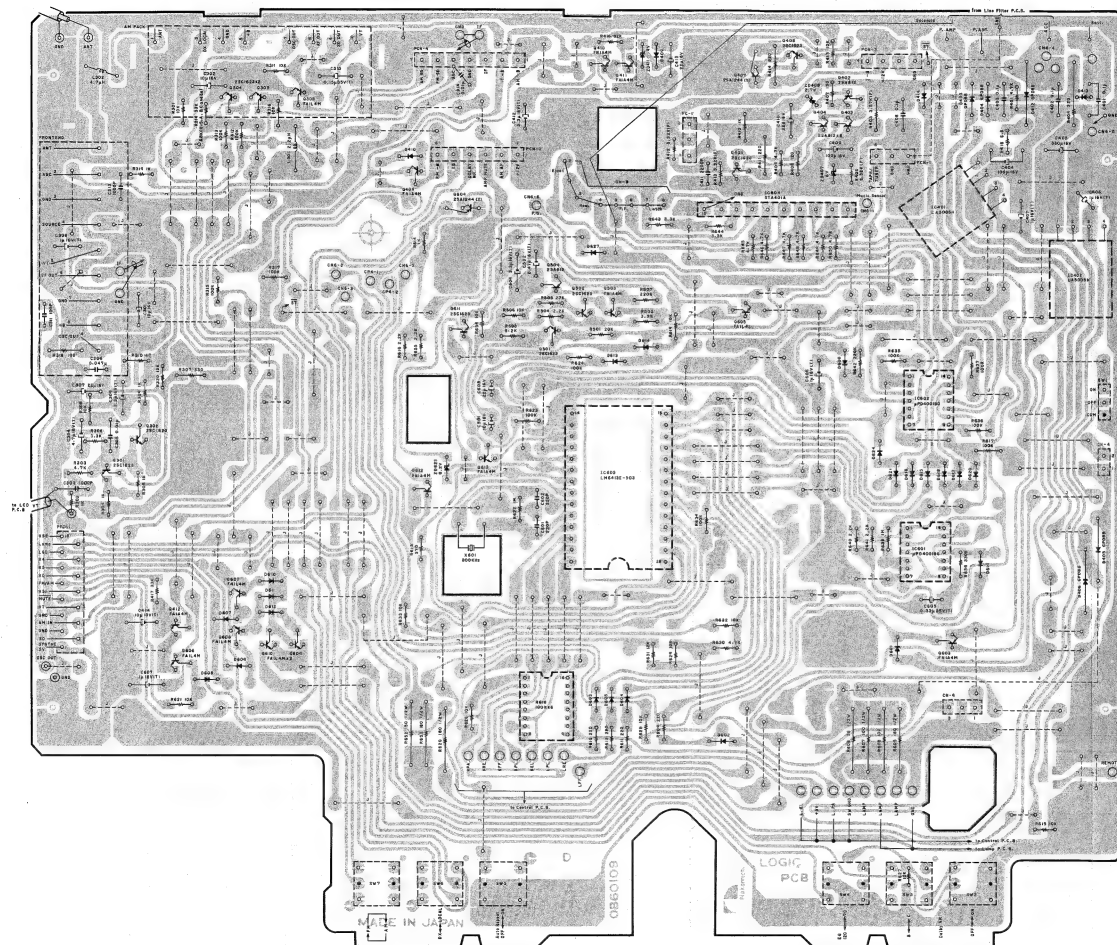
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			C334,338	0B40263A	CE 1 μ 50V K
IC301	0B06116E	Tuner P.C.B.	C335	0B40264A	CE 3.3 μ 35V K
IC302	0B06412A	IC LA1140	C336	0B41225A	CP 1000P 100V J
IC303	0B06414A	IC LA2110	C337	0B05583A	CM 0.033 μ 50V J
IC601	0B06415B	IC LA3375N	C601	0B43055A	CC 330P 50V K
Q302	0B11066A	IC LC4049B	C602	0B43025A	CT 1 μ 16V
Q303	0B14022A	TR 2SC1623	C605	0B43020A	CT 10 μ 10V
Q303	0B01872A	TR 2SC945L (P,Q)	C606	0B40162A	CE 10 μ 16V
ZD601	0B06241A	ZD 6.8V RD6,8EB2	CF301	0B41075A	Ceramic Filter SFE10.7MLK-A
D301,302	0B13064A	SiD MA221	CN3	0B81036A	2P-S Post (1)
303,601			PCN2	0B81283A	3P-S Post (1)
602			PCN3	0B82288A	4P Connector (1)
D304	0B06398A	SiD 1SS176	PCN4	0B82289A	TP Connector (3)
D305,604	0B13003A	SiD RLS-73		0E00764A	M2.6x6 #Pan (2A)
D603	0B06181A	SiD 1SS53			(1)
L301	0B51106A	Micro Coil 2.2 μ H		0J04869A	P.C.B. Holder Stud (1)
L302	0B51142A	Det. Coil 57-1291-01		0B81117A	Contact Pin 1P (4)
L303	0B06712A	Det. Coil 57-1057-01		0J04871B	Shield Case (1)
L601	0B51040A	Micro Coil 1mH			
VR301,302	0B32035A	Potentiometer 10K			
VR303	0B32038A	Potentiometer 100K			
R101,201	0B23081A	RK 2.2K 1/8W J			
326					
R102,202	0B23073A	RK 1K 1/8W J			
310,312					
322,328					
R103,203	0B23099A	RK 12K 1/8W J			
R104,204	0B23079A	RK 1.8K 1/8W J			
R105,205	0B23077A	RK 1.5K 1/8W J			
R301	0B23061A	RK 330 1/8W J			
R302	0B23115A	RK 56K 1/8W J			
R303,308	0B23105A	RK 22K 1/8W J			
317,602					
R304,323	0B23113A	RK 47K 1/8W J			
331,332					
334					
R305,327	0B23103A	RK 18K 1/8W J			
R306,330	0B23121A	RK 100K 1/8W J			
601					
R307	0B05561A	RK 18K 1/4W VJ			
R311	0B05615A	RK 22K 1/4W J			
R313,333	0B23097A	RK 10K 1/8W J			
336,337					
R314,315	0B23089A	RK 4.7K 1/8W J			
316					
R318	0B05629A	RK 2.7K 1/4W J			
R319,320	0B23083A	RK 2.7K 1/8W J			
338					
R321	0B01889A	RK 100K 1/4W J			
R324	0B23093A	RK 6.8K 1/8W J			
R325	0B23087A	RK 3.9K 1/8W J			
R329	0B09703A	RK 12K 1/6W J			
R335	0B09717A	RK 47K 1/6W J			
R603	0B23037A	RK 33 1/8W J			
C101,104	0B41233A	CP 2200P 100V J			
201,204					
C102,202	0B40255A	CE 1 μ 50V			
C103,203	0B41213A	CP 330P 100V J			
C105,205	0B41235A	CP 2700P 100V J			
C301,302	0B43053A	CC 0.047 μ 50V K			
303,306					
311,312					
313					
C305	0B43050A	CC 1000P 50V K			
C307,603	0B40173A	CE 1 μ 50V			
604					
C308	0B41394A	CP 220P 50V J			
C309,330	0B40258A	CE 4.7 μ 35V			
C310,315	0B40174A	CE 2.2 μ 50V			
C314	0B40165A	CE 47 μ 16V			
C316,317	0B43049A	CC 270P 50V K			
319					
C318	0B09284A	CC 270P 50V J			
C320,333	0B41094A	CM 0.01 μ 50V			
339					
C321	0B40163A	CE 22 μ 16V			
C322	0B01802A	CM 2200P 50V J			
C323	0B01914A	CM 3300P 50V J			
C324	0B40206A	CE 100 μ 16V			
C325	0B05530A	CM 6800P 50V J			
C326	0B41191A	C 68P 100V J			
C327	0B05687A	CM 1200P 50V J			
C328,329	0B05571A	CM 680P 50V J			
C331	0B41386A	CP 100P 50V J			

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05611A	Amp. P.C.B. Ass'y Serial No.: C60501001 - C60701301 -	R301 R308 C105.106 205.206 C107.207 C108.208	0B23061A 0B23069A 0B41369A 0B41373A 0B40256A	RK 5.6K 1/8W J RK 680 1/8W J CM 0.033 μ 50V J CM 0.068 μ 50V J CE 2.2 μ 50V
	— Dolby NR —				
IC101.201 ZD302	0B14119A 0B13011A	IC TEA0665 ZD 5.6V		— Line Amp. —	
D201	0B13003A	SID RL5-73	IC303 Q103.203 Q301	0B11001A 0B06299A 0B14027A 0B26009A	IC NJM4558M TR 28C2878 TR 2SA812 RM 100K 1/8W F
L101.201	0B51149A	Inductor 8.2mH	R133.134		
L102.202	0B51146A	L-C Block	135.136		
R123.223	0B23057A	RK 220 1/8W J	235.234		
R124.224	0B23069A	RK 4.7K 1/8W J	235.236		
R125.225	0B23071A	RK 820 1/8W J			
R126.226	0B23059A	RK 270 1/8W J	R137.237	0B26010A	RM 8.25K 1/8W F
R127.227	0B26007A	RM 33K 1/8W F	R138.139	0B26008A	RM 10K 1/8W F
R128.228	0B26006A	RM 82K 1/8W F			
R129.229	0B23090A	RK 8.1K 1/8W J	R147.247	0B23073A	RK 1K 1/8W J
R130.230	0B23117A	RK 68K 1/8W J	R148.248	0B23089A	RK 4.7K 1/8W J
R131.231	0B23081A	RK 2.2K 1/8W J	R304	0B23097A	RK 10K 1/8W J
	302		R305	0B23121A	RK 10K 1/8W J
R132.232	0B22447A	RM 82K 1/6W F	C121.122	0B41476A	CM 0.1 μ 50V J
R303	0B23097A	RK 10K 1/8W J	221.222		
R309	0B09669A	RK 470 1/6W J	SW301	0B70022A	Slide Switch
C109.209	0B05659A	CM 5600P 50V J		— Miscellaneous —	
C110.110	0B41141A	CP 4700P 100V G			
C111.111	0B40009A	CE 10 μ 16V		0B60113E	Amp. P.C.B.
211.217			CN1	0B81187A	4P-S Post
302			CN2	0B82303A	3P-H Connector
C112.118	0B41371A	CM 0.047 μ 50V J	CN3	0B82304A	1P Connector
212.218			CN5	0B82306A	4P-H Connector
C113.119	0B41176A	CM 0.22 μ 50V J	CN5	0B82382A	6P Coupler EMC-G06
213.219			CP1	0B82380A	2P Coupler EMC-G02
C114.120	0B40282A	CT 0.68 μ 35V K	PCN1	0B82335A	3P Connector
214.220			PCN2	0B82337A	6P Connector
C115.215	0B05681A	CM 0.01 μ 50V J		0B90021A	Band EG-9 (2)
C129.229	0B09069A	CE 100 μ 16V		0E00174A	Earth Lug B-4 (1)
C130.230	0B40207A	CE 470 μ 6.3V			
	0B81177A	Contact Pin 1P (2)		BA05476B	Amp. P.C.B. Ass'y Serial No.: C60501001 - 03550 C60701001 - 01300
	— Head Amp. —				Contents is the same as BA05611A except for the following parts:
IC301	0B11017A	IC NJM072S-E			
Q101.201	0B06376A	FET 2SK170 (GR)			
Q102.202	0B14022A	TR 2SC1623			
ZD301	0B2162A	ZD 8.2V			
		RD8.2JS-T1B2			
VR101.201	0B32039A	Potentiometer 10K	CP1	0B82293A	6P Coupler TVQ (1)
R101.106	0B23121A	RK 100K 1/8W J	CP2	0B82295B	2P Coupler TVQ (1)
201.206					
R102.202	0B22601A	RM 80.6 1/4W F			
R103.203	0B22644A	RM 1.54K 1/4W F			
R105.205	0B26010A	RM 8.25K 1/8W F			
R107.207	0B22548A	RM 4.7M 1/4W J			
R108.208	0B22491A	RM 210K 1/6W F			
R109.209	0B26002A	RM 2.15K 1/8W F			
R110.210	0B26003A	RM 2.67K 1/8W F			
R111.211	0B23098A	RK 6.8K 1/8W J			
R112.212	0B23097A	RK 10K 1/8W J			
R113.213	0B23145A	RK 1M 1/8W J			
R306	0B23081A	RK 2.2K 1/8W J			
R307	0B23069A	RK 680 1/8W J			
C101.201	0B41177A	CM 0.33 μ 50V J			
C102.202	0B40259A	CE 10 μ 16V			
C103.203	0B09858A	CM 0.015 μ 50V J			
C104.204	0B09861A	CF 0.027 μ 50V J			
C301	0B40357A	CE 330 μ 10V			
C302	0B40256A	CE 220 μ 10V			
	0B81177A	Contact Pin 1P (1)			
	0B90044A	Shield Belt (1)			
	— Subsonic Filter —				
IC302	0B11032A	IC LF353N			
IC305	0B11002A	IC LF353P			
D301	0B13063A	SID DAP202K			
R115.215	0B23115A	RK 56K 1/8W J			
R116.118	0B23137A	RK 470K 1/8W J			
216.218					
R117.217	0B23129A	RK 220K 1/8W J			
R119.219	0B23139A	RK 560K 1/8W J			
R120.220	0B26004A	RM 8.66K 1/8W F			
R121.221	0B23145A	RM 1M 1/8W J			
R122.222	0B26005A	RM 1K 1/8W F			
R149.249	0B23141A	RK 680K 1/8W J			

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Fig. 8.13.1 C60504101 - (TD-700 & TD-700E)

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
	BA05618A	Logic P.C.B. Assy TD-700 (Japan)	D403,404	OB06109A	SID GP08B		OB91004A	Front-end TD-700 (U.S.A. & Canada)
	BA05619A	Logic P.C.B. Assy TD-700 (U.S.A. & Canada)	405,406 412 D409,410 D413,414				OB91003A	Front-end TD-700 (Japan)
	BA05620A	Logic P.C.B. Assy TD-700 (Australia & Others) & TD-700E	R401,409 R404 R405 R406,412	OB13003A OB13064A OB23089A OB01933A OB26012A OB26013A	SID RLS-73 SID MA221 RK 4.7K 1/8W J RK 220 1/4W J RM 3.57K 1/8W F RM 3.32K 1/8W F	CN9	— Miscellaneous —	
	BA05622A	Logic P.C.B. Assy Serial Nos.: C60503399 - 04100 C60701251	R407 R408 R410 R411,414 R415 R416 R417 R418 C403	OB23053A OB23051A OB23073A OB23150A OB23097A OB23119A OB23109A OB23021A OB09292A	RK 150 1/8W J RK 120 1/8W J RK 1K 1/8W J RK 220 1/4W J RK 10K 1/8W J RK 82K 1/8W J RK 33K 1/8W J RK 6.8 1/8W J CC 0.1μ 50V Z		OB60109D Logic P.C.B.	
— CPU —							OB81037A 3P-5 Post	
IC601,602	OB11063A	IC μPD4001BG					OB81273B 4P Terminal (1)	
IC603	OB11061A	IC LM6413E-503					OB82290A 4P Connector (1)	
IC604	OB10048A	IC STA401A					OB82291A 7P Connector (1)	
QC603,612	OB14153A	TR FN1A4M	C403	OB43054A	CE 0.1μ 50V Z		OB82298B 2P Coupler (1)	
Q604	OB10017A	TR 2SA1244 (Y)	C404,409	OB40206A	CE 100μ 16V		OB82307C 7P-H Connector (1)	
Q605	OB14149A	TR FA1A4M	C405	OB40080A	CE 330μ 16V		OB82309B 8P-H Connector (1)	
Q606,609	OB14146A	TR FA1A4M	C406,407 C410,415	OB43025A OB23169A	CT 1μ 16V CT 22μ 16V		OB82334A 3P Connector (1)	
Q607,608	OB14151A	TR FN1A4M	C411	OB43051A	CC 2200P 50V K		OB82336A 6P Connector (1)	
Q611	OB14022A	TR 2SC1623	C412	OB43028A	CT 3.3μ 16V		OB80019A SK Binder (1)	
Q613	OB14144A	TR FA1A4M	C414	OB43020A	CT 10μ 10V		OE00174A Earth Lug B-4 (4)	
ZD623	OB13024A	ZD 8.2V RLZ8.2CTE-11		— Reset —			OB81272B 4P Terminal Male TD-700D (1)	
D601-621	OB13064A	SID MA221 (23)	Q501,502	OB14022A	TR 2SC1623		OB81273B 4P Terminal Female TD-700D (1)	
824,827			Q503	OB14153A	TR FN1A4M		BA05501A Line Filter P.C.B. Assy (1)	
X601	OB02307A	Crystal 800KHz	Q504	OB14027A	TR 2SA812		BA05497A Transistor P.C.B. Assy (1)	
R605,620	OB24035A	RF 180 1/2W J	R501	OB23104A	RK 20K 1/8W J			
653			R502	OB23085A	RK 3.3K 1/8W J			
R606	OB24041A	RF 56 1/2W J	R503	OB23095A	RK 8.2K 1/8W J			
R607,608	OB23057A	RK 220 1/8W J	R504	OB23081A	RK 2.2K 1/8W J			
611,612			R505	OB23107A	RK 27K 1/8W J			
R613	OB23059A	RK 270 1/8W J	R506	OB23097A	RK 10K 1/8W J			
R614	OB23073A	RK 1K 1/8W J	R507	OB23129A	RK 220K 1/8W J			
R615,619	OB23097A	RK 10K 1/8W J	C501	OB40162A	CE 10μ 16V			
621,626			C502	OB43023A	CT 0.47μ 16V			
627,628				— Tuner —				
629,632								
633,654								
R616,640	OB23081A	RK 2.2K 1/8W J	Q301,302	OB14022A	TR 2SC1623			
641,655			304,305					
R617,623	OB23121A	RK 100K 1/8W J	Q303	OB14146A	TR FA1A4M			
624,634			L301	OB51106A	Micro Coil 2.2μH			
635,636			L302	OB51011A	Micro Coil 4.7μH			
637			R301,308	OB23097A	RK 10K 1/8W J			
R618	OB21001A	R-Network 100Kx6	311,316					
R622,638	OB23145A	RK 1M 1/8W J	R302,304	OB23073A	RK 1K 1/8W J			
R630	OB23089A	RK 4.7K 1/8W J	305,309					
645-650			319					
R631	OB23099A	RK 12K 1/8W J	R303	OB23089A	RK 4.7K 1/8W J			
R639	OB23133A	RK 330K 1/8W J	R306	OB23085A	RK 3.3K 1/8W J			
R642	OB23129A	RK 220K 1/8W J	R307	OB23061A	RK 330 1/8W J			
R643,644	OB23085A	RK 3.3K 1/8W J	R310	OB23041A	RK 47 1/8W J			
R652	OB24040A	RF 150 1/2W J	R312,313	OB23121A	RK 100K 1/8W J			
C601,602	OB43048A	CC 220P 50V K	315,317					
C603	OB40163A	CE 22μ 16V	R314	OB23109A	RK 33K 1/8W J (except for U.S.A. & Canada)			
C604	OB43028A	CT 3.3μ 16V		OB23117A	RK 68K 1/8W J (U.S.A. & Canada)			
C605	OB43037A	CT 0.33μ 35V						
C606,607	OB43025A	CT 1μ 16V						
SW1-5	OB70018A	Push Switch						
SW6	OB70021A	Slide Switch	R318	OB09653A	RK 100 1/6W J			
SW7	OB70019A	Push Switch	R320	OB23101A	RK 15K 1/8W J			
CN4	OB81025A	2P-T Post	C301,302	OB40162A	CE 10μ 16V			
FFC1	OB81279A	15P FFC Connector	C303	OB43050A	CC 1000P 50V K			
			C304	OB40280A	CT 4.7μ 16V			
— Regulator —			C305	OB41094A	CM 0.01μ 50V J			
IC401,402	OB11034A	IC LA5005H	C306	OB43053A	CC 0.047μ 50V K			
Q402,403	OB14027A	TR 2SA812	C307	OB40163A	CE 22μ 16V			
404			C308	OB43025A	CT 1μ 16V			
Q406,408	OB14022A	TR 2SC1623	C309	OB40279A	CT 3.3μ 16V			
Q407	OB10017A	TR 2SA1244 (Y)	C310	OB43035A	CT 0.15μ 35V			
Q409,410	OB14153A	TR FN1A4M	C311	OB43047A	CC 100P 50V K			
Q411,412	OB14144A	TR FA1A4M	C313	OB41082A	CM 1000P 50V J			
ZD407	OB13014A	ZD 6V PLZ6.2BTE-11	C314	OB43052A	CC 0.01μ 50V K			
				OB91006A	AM Pack (1)			
ZD408	OB14121A	ZD 2.7V		OB91006A	Front-end TD-700 (Australia & Others), TD-700E & TD-700D			
ZD411	OB13026A	ZD 9V RLZ9.1BTE-11						



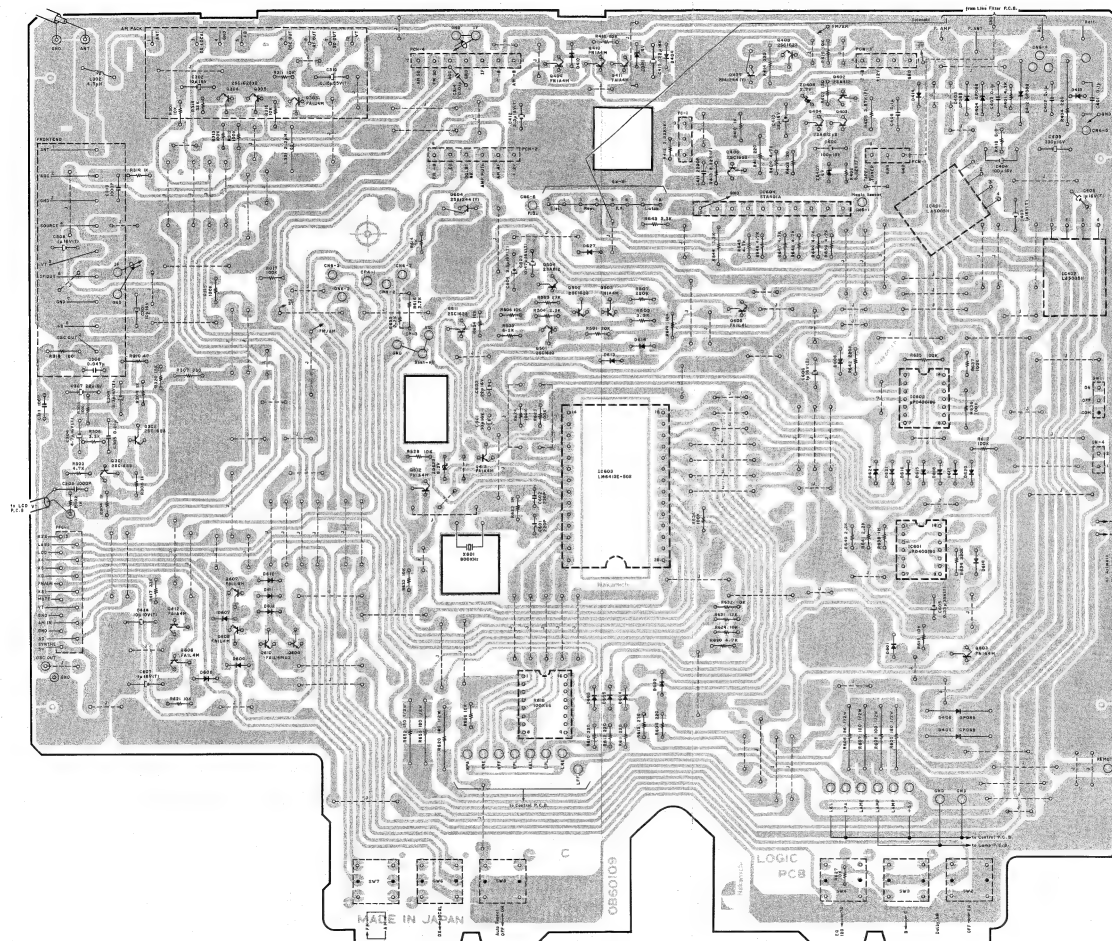


Fig. 8.13.3 C60501001 - 03398 (TD-700 & TD-700E)
C60701001 - 01250 (TD-700D)

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
BA05407A		Logic P.C.B. Assy TD-700 (Japan)	D403.404	OB06109A	SID GP08B	CP3	— Miscellaneous —	
BA05427A		Logic P.C.B. Assy TD-700 (U.S.A. & Canada)	D412				OB80109C	Logic P.C.B.
BA05451A		Logic P.C.B. Assy TD-700 (Australia & Others)	D409.410	OB13003A	SID RLS-73		OB82296A	3P Coupler
BA05452A		Logic P.C.B. Assy TD-700D	D411.414	OB13004A	SID MA221		OB81273B	4P Terminal (1)
		Serial Nos.: C06051001-03398 C06071001-01250	R401.409	OB23089A	RK 4.7K 1/8W J		OB82290A	4P Connector (1)
			R405	OB23090A	RK 220 1/4W J		OB82291A	2P Connector (1)
			R412	OB26012A	RM 3.57K 1/8W F		OB82307C	7P-H Connector (1)
			R413	OB26013A	RM 3.32K 1/8W F		OB82309B	8P-H Connector (1)
			R407	OB23083A	RK 150 1/8W J		OB82324A	3P Connector (1)
			R408	OB23013A	RK 120 1/8W J		OB82336A	8P Connector (1)
— CPU —			R410	OB23073A	RK 1K 1/8W J	BA05501A	5K Binder (1)	
IC601.602	OB11063A	IC μ PD4001BG	R411	OB23097A	RK 10K 1/8W J		OE00119A	
IC603	OB11061A	IC LM6413E-503	R415	OB23119A	RK 82K 1/8W J		OE00174A	
IC604	OB11048A	IC STA401A	R416	OB23199A	RK 33K 1/8W J		OB81127B	4P Terminal Male
Q603.612	OB14153A	TR FN1A4M	R418	OB23021A	RK 6.8 1/8W J		OB81278B	4P Terminal Male
Q605	OB10017A	TR 2SA1244 (Y)	C401.402	OB40208A	CE 100u 16V		OB81268B	4P Terminal Male
Q606	OB14149A	TR FA1A4M	C403	OB40208A	CE 330u 16V		BA05501A	Line Filter P.C.B. Assy
Q606.609	OB14146A	TR FA1A4M	C404.409	OB40208A	CE 22u 16V		BA05497A	Transistor P.C.B. Assy
Q607.608	OB14151A	TR FN1A4M	C406.407	OB40163A	CE 22u 16V			
Q611	OB14022A	TR 2SC1623	C410.415	C411	OB40301A	CC 2200P 50V K		
Q613	OB14144A	TR FA1A4M	C412	OB40285A	CT 3.3u 16V			
ZD623	OB13024A	ZD 8.2V	C414	OB43020A	CT 10u 10V			
— Reset —								
D601-621	OB13064A	SID MA221 (23)	Q501.502	OB14022A	TR 2SC1623	Q505	— Tuner —	
624.627			Q505	OB14153A	TR FN1A4M		OB14022A	TR 2SC1623
X601	OB02307A	Crystal 800KHz	Q504	OB14027A	TR 2SA812		OB23104A	RK 20K 1/8W J
R605.620	OB24035A	RF 180 1/2W J	R602	OB23104A	RK 3.3K 1/8W J		OB23085A	RK 3.3K 1/8W J
653			R603	OB23085A	RK 2.2K 1/8W J		OB23077A	RK 27K 1/8W J
R606	OB24041A	RF 56 1/2W J	R604	OB23081A	RK 2.2K 1/8W J		OB23097A	RK 10K 1/8W J
R607.608	OB24007A	RF 100 1/2W J	R605	OB23107A	RK 27K 1/8W J		OB23199A	RK 220K 1/8W J
R609.610	OB23057A	RK 220 1/8W J	R606	OB23097A	RK 10K 1/8W J		OB14022A	CE 10u 16V
R611.612			R607	OB14022A	CE 10u 16V		OB43023A	CT 0.47u 16V
R614	OB23078A	RK 1K 1/8W J	C501				Q301.302	— Regulator —
RG15.619	OB23097A	RK 10K 1/8W J	C502			OB14022A		TR 2SC1623
621.626						OB14146A		TR FA1A4M
627.628						OB31108A		Micro Coil 2.2uH
629.632						OB51011A		Micro Coil 4.7uH
635.640						OB23087A		RK 10K 1/8W J
641.655						OB23073A		RK 1K 1/8W J
RG17.623						OB23089A		RK 4.7K 1/8W J
624.634						OB23085A		RK 3.3K 1/8W J
635.636						OB24004A		RF 150 1/2W J
637						Q303	— Regulator —	
R618	OB21001A	R-NetWork 100K \times 6	R618.638	OB21001A	R-NetWork 100K \times 6		OB14027A	TR 2SA812
RG22.638	OB23145A	RK 1M 1/8W J	R630	OB23089A	RK 4.7K 1/8W J		OB14022A	TR 2SC1623
R630	OB23089A	RK 4.7K 1/8W J	645-650				OB10017A	TR 2SA1244 (Y)
R631	OB23099A	RK 12K 1/8W J	R631	OB23138A	RK 330K 1/8W J		OB14144A	TR FA1A4M
R632	OB23129A	RK 220K 1/8W J	R632	OB23129A	RK 220K 1/8W J		OB13014A	TR FA1A4M
R633.644	OB23085A	RK 3.3K 1/8W J	R633	OB23085A	RK 3.3K 1/8W J		OB13014A	TR FA1A4M
R634	OB24004A	RF 150 1/2W J	R634	OB24004A	RF 150 1/2W J		OB13014A	TR FA1A4M
CM01.602	OB43048A	CC 220P 50V K	R635	OB43048A	CC 220P 50V K		OB13014A	TR FA1A4M
C603	OB40163A	CE 22u 16V	R636	OB40163A	CE 22u 16V		OB13014A	TR FA1A4M
C604	OB43028A	CT 3.3u 16V	R637	OB43028A	CT 3.3u 16V	Q304	— Regulator —	
C605	OB43074A	CT 0.33u 35V	R638	OB43074A	CT 0.33u 35V		OB13014A	TR FA1A4M
C606.607	OB43052A	CT 1u 16V	R639	OB43052A	CT 1u 16V		OB13014A	TR FA1A4M
SW1-5	OB70018A	Push Switch	R640	OB70018A	Push Switch		OB13014A	TR FA1A4M
SW2-5	OB70021A	Slide Switch	R641	OB70021A	Slide Switch		OB13014A	TR FA1A4M
SW7	OB70019A	Push Switch	R642	OB70019A	Push Switch		OB13014A	TR FA1A4M
CN4	OB81025A	27P Post	R643	OB81025A	27P Post		OB13014A	TR FA1A4M
FFC1	OB81279A	15P FFC Connector	R644	OB81279A	15P FFC Connector		OB13014A	TR FA1A4M
			R645	OB81279A	15P FFC Connector		OB13014A	TR FA1A4M
			R646	OB81279A	15P FFC Connector		OB13014A	TR FA1A4M
IC401.402	OB11034A	IC LA5003H	IC402.403	OB14027A	TR 2SA812	Q314	— Regulator —	
Q405.408	OB14022A	TR 2SC1623	Q406.410	OB10017A	TR 2SA1244 (Y)		OB14022A	TR 2SC1623
Q411.412	OB14153A	TR FN1A4M	Q412.413	OB14144A	TR FA1A4M		OB14153A	TR FN1A4M
ZD407	OB13014A	ZD 6V	Q413	OB13014A	ZD 6V		OB13014A	TR FA1A4M
ZD408	OB14121A	ZD PL26.2BTE-11	Q414	OB14121A	ZD PL26.2BTE-11		OB14121A	ZD PL26.2BTE-11
ZD411	OB13026A	ZD R102.7MB-TIA	Q415	OB13026A	ZD R102.7MB-TIA		OB13026A	ZD R102.7MB-TIA
			Q416	OB13026A	ZD R102.7MB-TIA		OB13026A	ZD R102.7MB-TIA
			Q417	OB13026A	ZD R102.7MB-TIA		OB13026A	ZD R102.7MB-TIA
			Q418	OB13026A	ZD R102.7MB-TIA		OB13026A	ZD R102.7MB-TIA
			Q419	OB13026A	ZD R102.7MB-TIA		OB13026A	ZD R102.7MB-TIA

9. SCHEMATIC DIAGRAMS

9.1. IC Block Diagrams

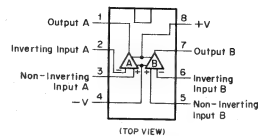


Fig. 9.1.1 Operational Amp. IC NJM4558M, NJM072, LF353N

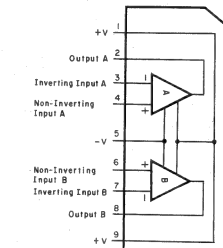


Fig. 9.1.2 Operational Amp. IC NJM072S-E

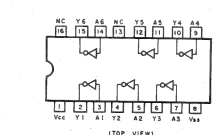


Fig. 9.1.3 Inverter C-MOS IC LC4049B

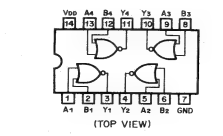


Fig. 9.1.4 NOR Gate C-MOS IC μPD4016G

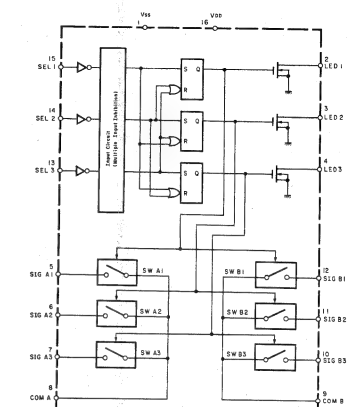


Fig. 9.1.5 Analog Switch Selector TC9145P

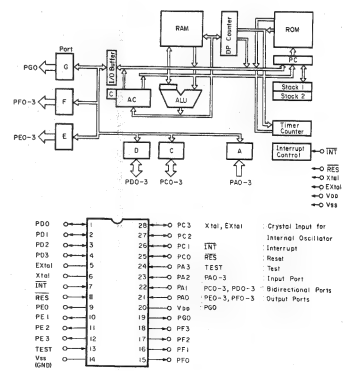


Fig. 9.1.6 4-Bit Micro-processor LM6413E-503

9.2. Schematic Diagrams

(1) Tuner Section

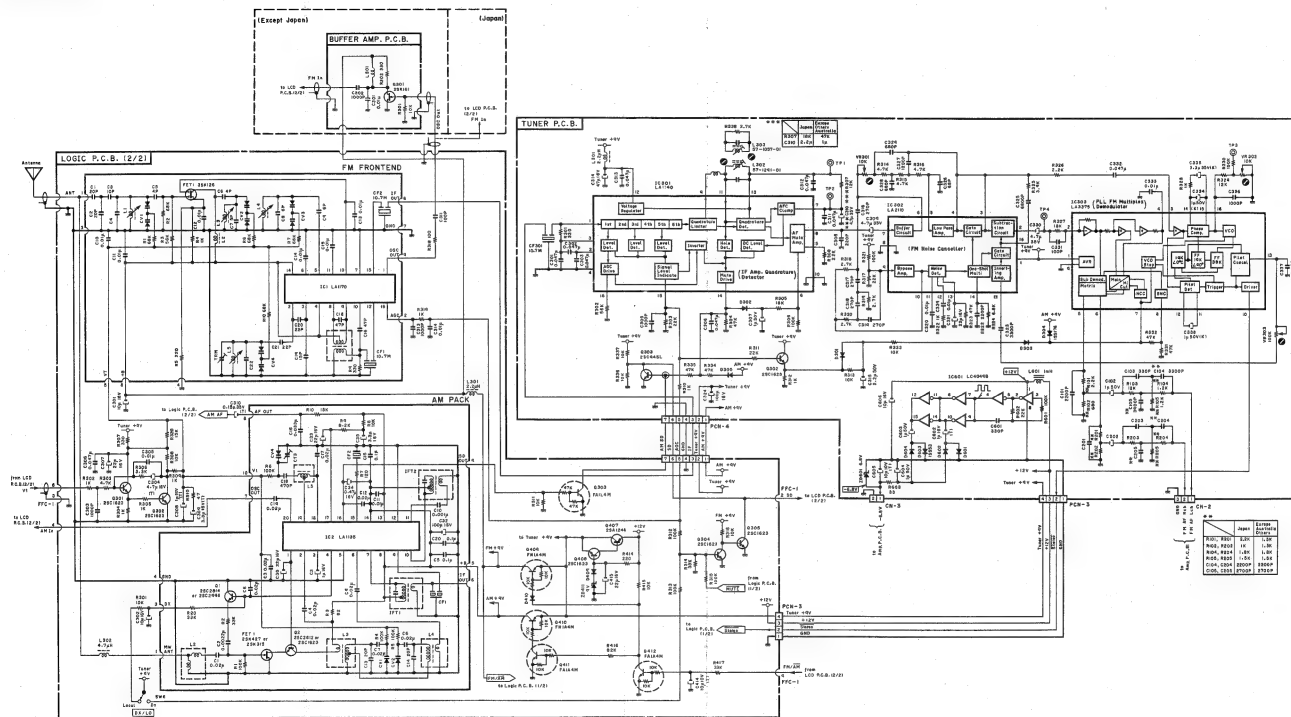


Fig. 9.2.1.1 TD-700E, TD-700D & TD-700 (Australia, Others & Japan)

Notes: 1. Diode is MA221 or RLS-73 unless otherwise specified.
2. 2SC945, 2SC536SP, 2SC2458 and 2SC2785 are interchangeable with each other.

10. WIRING DIAGRAMS

Notes: 1. Table of wire colors

BLU — Blue	BLU — Blue
BRN — Brown	BRN — Brown
RED — Red	VIO — Violet
ORN — Orange	GRY — Gray
YEL — Yellow	WHT — White
GRN — Green	BLK — Black

2. Component side view of the P.C.B. is illustrated unless otherwise specified.

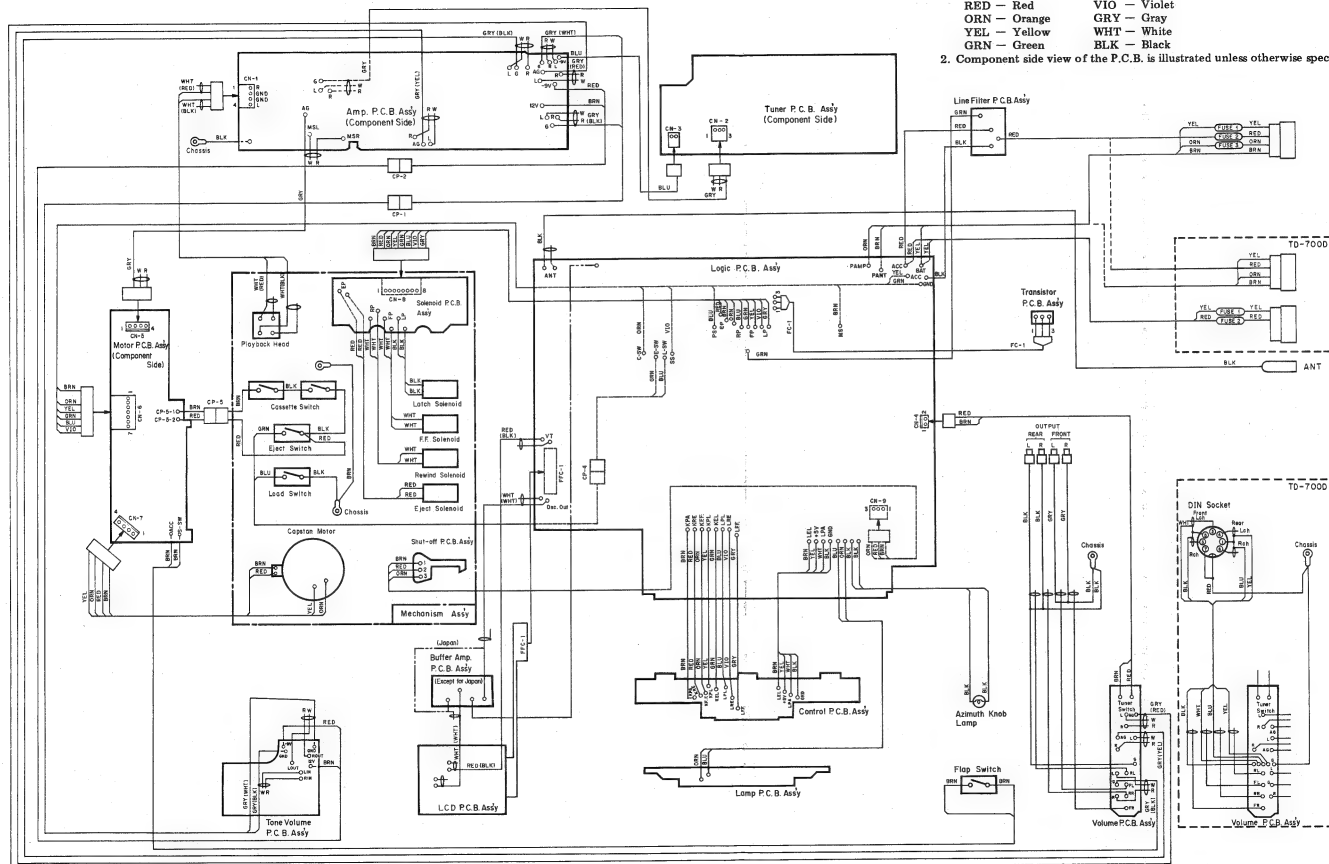


Fig. 10.1 C60563599 - (TD-700 & TD-700E)
C60701301 - (TD-700D)

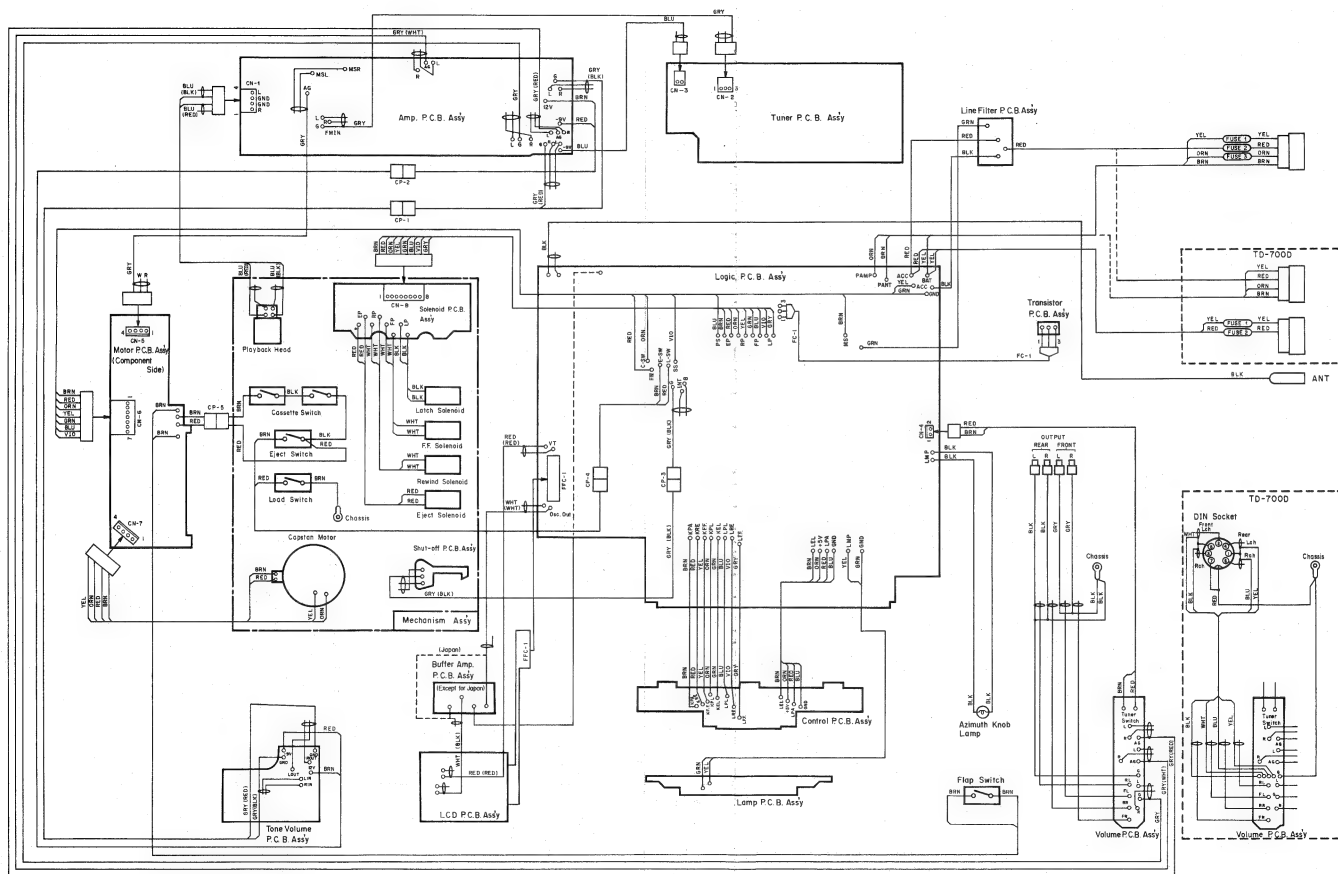


Fig. 10.2 C60501001 - 03298 (TD-700 & TD-700E)
C60701001 - 01300 (TD-700D)

11. TIMING CHART

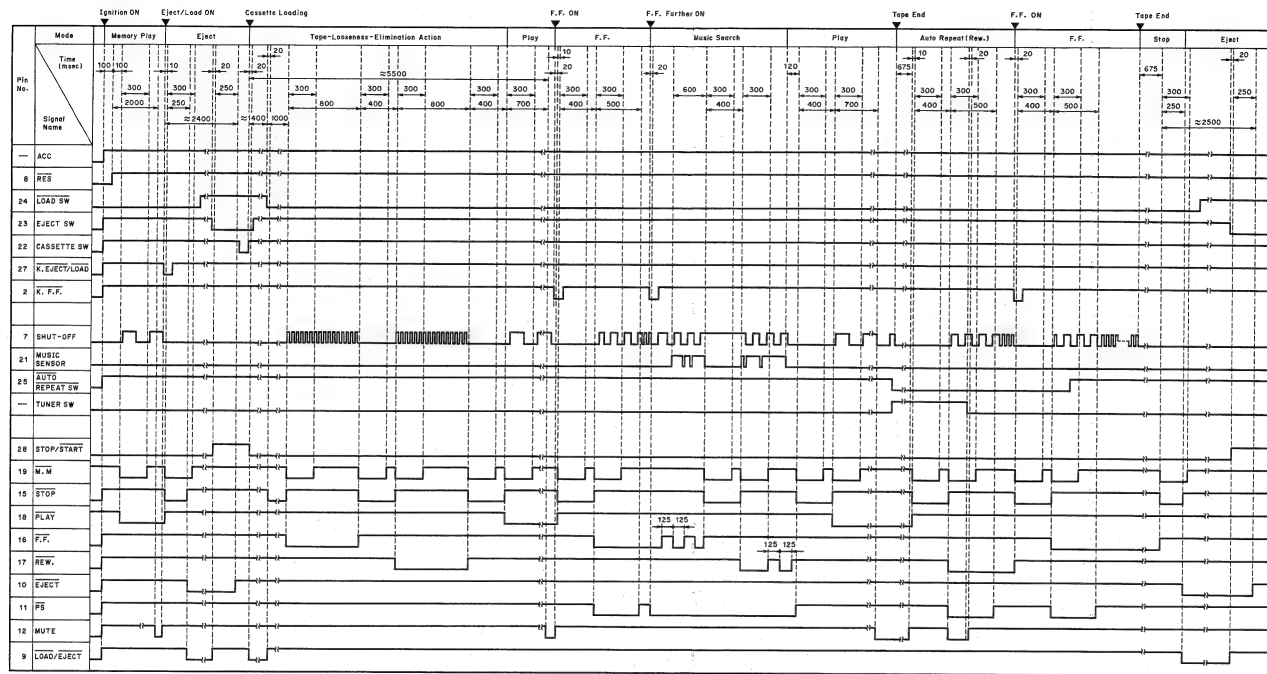


Fig. 11

12. BLOCK DIAGRAMS

12.1. Tuner and Amplifier Section

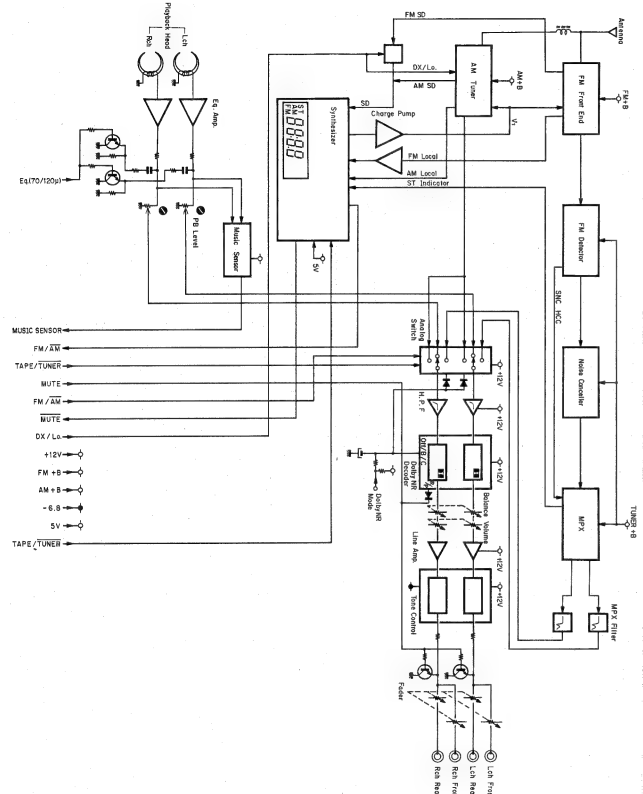


Fig. 12.1

12.2. Mechanism Control Section

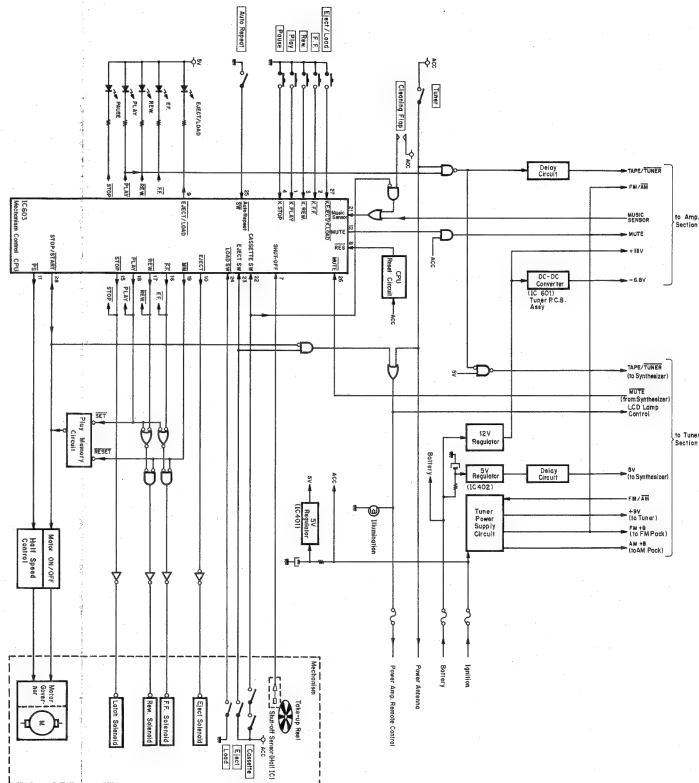


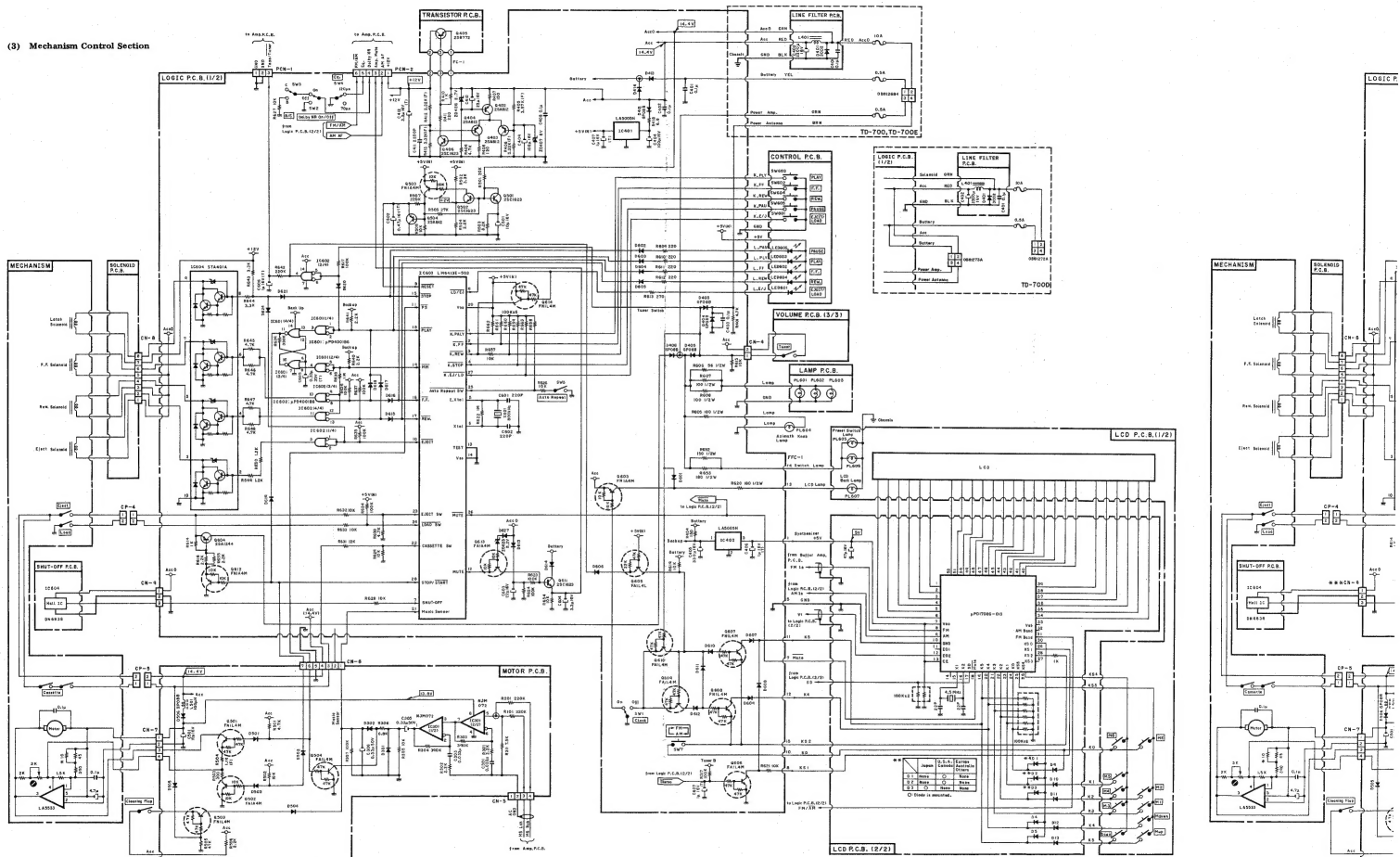
Fig. 12.2

[illegible]

Notes: 1. Diode is MA221 or RLS-73 unless otherwise specified.
2. 2SC945, 2SC536SP, 2SC2458 and 2SC2785 are interchangeable with each other.

otherwise specified.
2SC2785 are interchangeable with each other.

(3) Mechanism Control Section



Note: Diode is MA221 or RLS-73 unless otherwise specified.

Fig. 9.2.3.1 C60504101 - (TD-700 & TD-700E)

***: 3P coupler (CP-3) is used for the Models be C60501001 - 03398 (TD-700 & TD-700E).

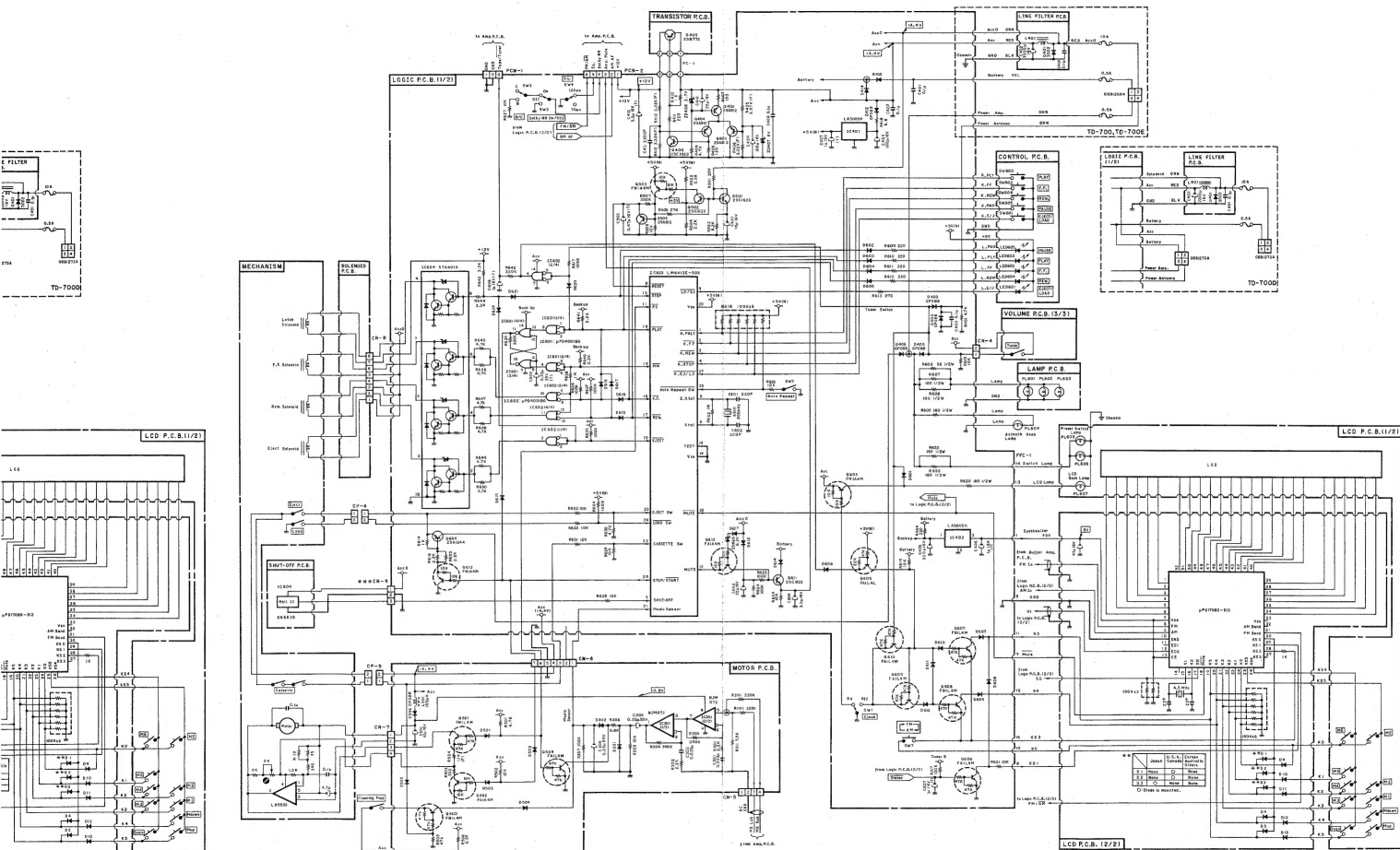


Fig. 9.2.3.2 C60501001 - 04100 (TD-700 & TD-700E)
C60701001 - (TD-700D)

13. SPECIFICATIONS

● Cassette Deck Section

Tape Speed	1-7/8 ips (4.8 cm/sec.)
Wow and Flutter	Less than 0.05% WTD RMS Less than $\pm 0.1\%$ WTD Peak
Frequency Response	20–21,000 Hz ± 3 dB (Nakamichi Test Tape)
Signal to Noise Ratio	Dolby C-Type NR On $< 70 \mu\text{s}$, ZX Tape Better than 70 dB (400 Hz, 3% THD, IHF A-WTD RMS) Dolby B-Type NR On $< 70 \mu\text{s}$, ZX Tape Better than 64 dB (400 Hz, 3% THD, IHF A-WTD RMS)
Channel Separation	Better than 34 dB (1 kHz, 0 dB)
Crosstalk	Better than 60 dB (1 kHz, 0 dB)
Winding Time	
(Fast Forward/Fast Reverse)	Approx. 75 sec. (with C-60 cassette)

● Tuner Section

—FM—

Frequency Range	87.5–107.9 MHz
Sensitivity	18 dBf (IHF)
50 dB Quietening Sensitivity	20 dBf (Mono)
Total Harmonic Distortion	0.15% (Mono 1 kHz) Input 65 dBf 0.3% (Stereo 1 kHz) Input 65 dBf
S/N Ratio	65 dB (Mono)
Frequency Response	30–15,000 Hz ± 3 dB
Alternate Channel Selectivity	65 dB (± 400 kHz)
Capture Ratio	2 dB
Image Rejection at 98 MHz	55 dB
IF Rejection at 98 MHz	80 dB
Stereo Separation	35 dB (1 kHz) at 65 dBf
Antenna Terminals	75 ohms (unbalanced)

—AM—

Frequency Range	530–1620 kHz
Sensitivity	33 dB μ

● Preamplifier Section

Frequency Response	10–50,000 Hz ± 1 dB
Output Level/Impedance	0.35 V (Low) or 1.1 V (High)/1 kohms
Total Harmonic Distortion	Less than 0.005%
Tone Control	
Bass	20 Hz ± 18 dB
Mid	200 Hz ± 10 dB
Treble	20 kHz ± 12 dB

Dimensions	178 (W) x 50 (H) x 165 (D) mm 7 (W) x 2 (H) x 6-1/2 (D) inches
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Approximate Weight	1.9 kg/4 lb. 3 oz.
Power Source	14.4 V DC negative ground (10.8–15.6 V allowable)
Power Consumption	6.5 A Maximum

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